

Owner's Operating Service Instruction Manual

10¢

Model Nos.

144-860A

144-960A

- **ASSEMBLY**
- **OPERATION**
- **REPAIR PARTS**

10 & 16 H.P. GARDEN TRACTORS

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

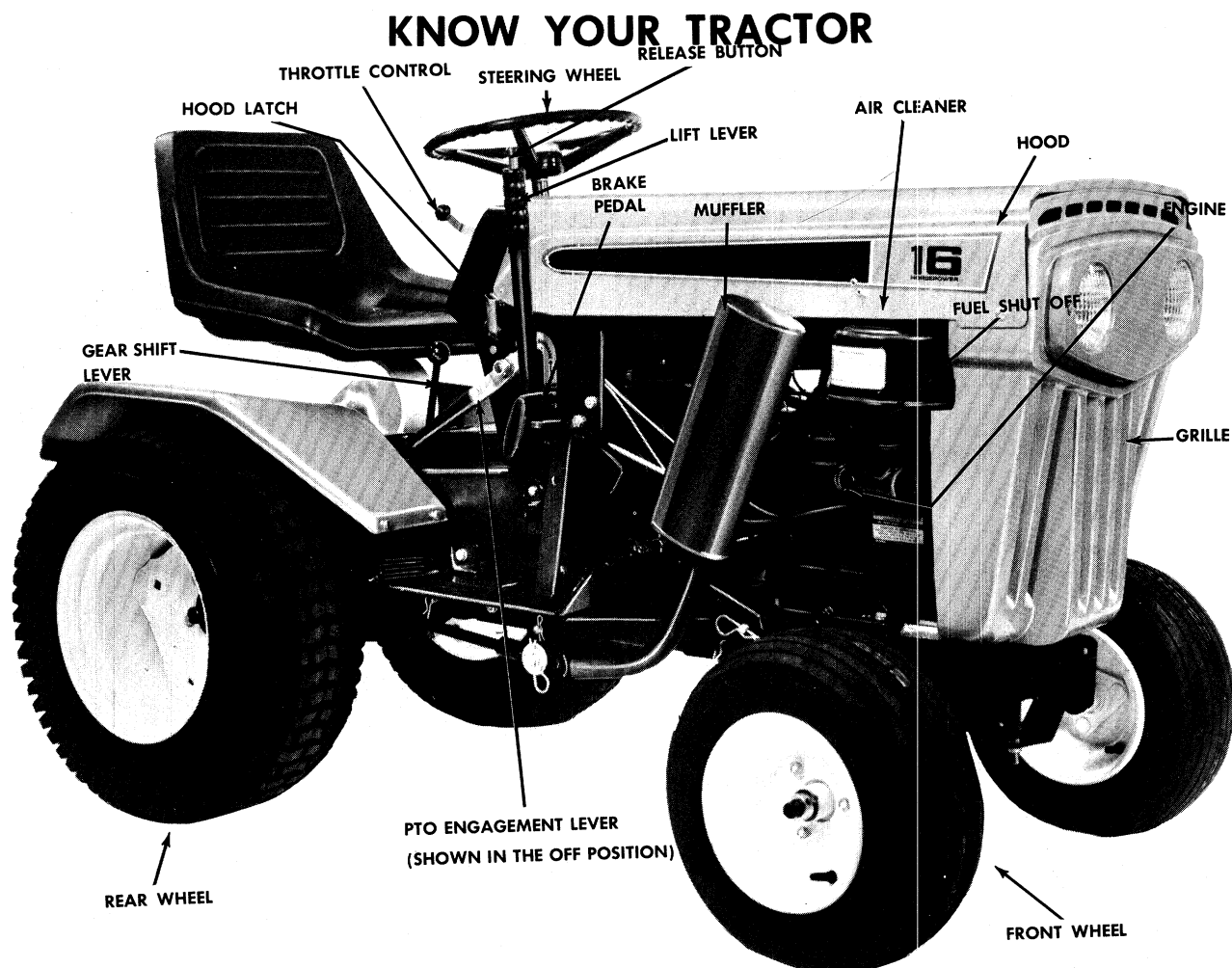
I M P O R T A N T

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine (motor).
6. Disengage power to attachment(s) and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine (motor) indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine (motor) is running if operator must dismount to do so.
 - (3) Shut engine (motor) off when removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

Index

| | | | |
|---|----|---|----|
| Safe Operation Practices | 2 | Illustrated Parts Left Hand View | 26 |
| Index and Know Your Tractor | 3 | Parts List of Left Hand View | 27 |
| Assembly Instructions | 4 | Illustrated Parts for Three-Point Hitch | 28 |
| Checking Oil and Gasoline and General Information | 5 | Parts List of Three-Point Hitch | 29 |
| Operating Instructions | 7 | Illustrated Parts for Power Take-Off | 30 |
| Maintenance | 8 | Parts List of Power Take-Off | 31 |
| Clutch Removal | 13 | Illustrated Parts for Steering Assembly | 32 |
| Lubrication | 14 | Parts List of Steering Assembly | 33 |
| Assembly of Three-Point Hitch | 16 | Illustrated Parts for Clutch Assembly | 34 |
| Assembly Instructions for Optional Equipment | 17 | Parts List of Clutch Assembly | 35 |
| Trouble Shooting Chart | 21 | Illustrated Parts and Parts List of Right Angle Drive | 36 |
| Schematic of Electrical System | 22 | Illustrated Parts for Transaxle | 37 |
| Disc Brake Assembly | 23 | Parts List of Transaxle | 38 |
| Illustrated Parts Right Hand View | 24 | Battery Warranty | 39 |
| Parts List of Right Hand View | 25 | Parts Information | 40 |



ASSEMBLY INSTRUCTIONS

WARNING

The tractor shall not be operated without the entire grass catcher or chute deflector in place when using the cutting deck.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

ACTIVATING THE BATTERY

WARNING

ELECTROLYTE IS A MIXTURE OF SULPHURIC ACID AND WATER. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. IF ELECTROLYTE IS SPILLED FLUSH AREA WITH CLEAR WATER AND NEUTRALIZE WITH SOLUTION OF WATER AND BAKING SODA OR WATER AND AMMONIA.

CAUTION

Always add electrolyte to battery before battery is installed in vehicle.

1. Remove vent plugs.
2. When using 6 quart or 2 quart container—place package upright; pull tab back to edge of carton, pull out hose; snip off end of hose. Fill each cell until electrolyte level rises to split ring at bottom of vent well.

DO NOT OVER FILL

3. After filling cells, wait five to ten minutes and add additional electrolyte if necessary to bring electrolyte to proper level.
4. Replace vent caps.
5. Charge battery for 10 to 15 minutes at 25-30 amps. or for 30 minutes at 4-6 amps.

TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should not exceed 15 PSI. Equal tire pressure should be maintained.

INSTALLING THE BATTERY.

- Step 1. Place the battery in the tractor with the Negative terminal towards the front of the tractor. Do not push the battery all the way in.
- Step 2. Attach the positive cable to the positive battery terminal. The positive cable is marked (P+).
- Step 3. Attach the negative cable to the negative battery terminal. The negative cable is marked (N).

Step 4. Assemble the hold down rods and cross rods with the flat washer and wing nut. See Figure 2.

Step 5. Place the battery hold down assembly over the battery and slide the battery into place. See Figure 3.

Step 6. Hook the hold down rods into the battery case and tighten finger tight.

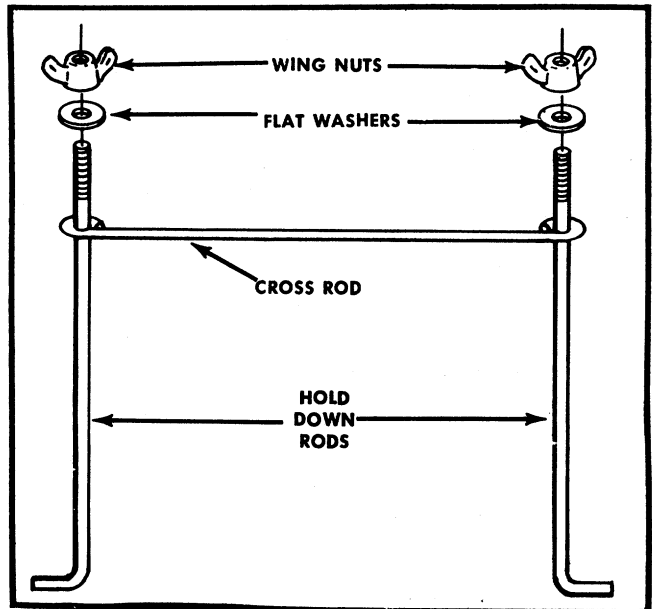


FIGURE 2. HOLD DOWN ASSEMBLY

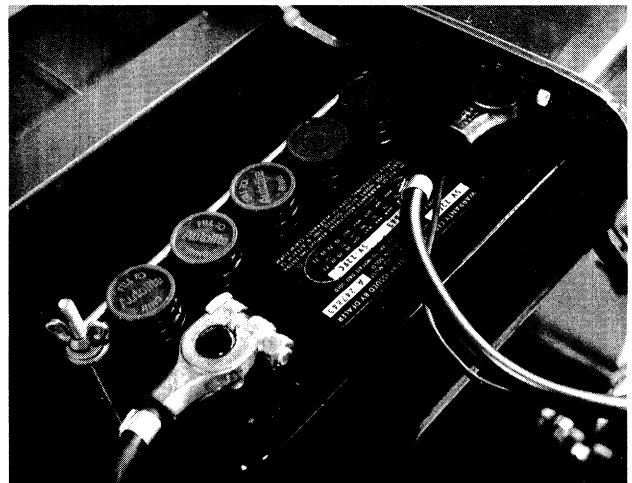


FIGURE 3. BATTERY INSTALLATION

ASSEMBLING THE THREE POINT HITCH.

Refer to pages 16 through 20 for assembling the three-point Hitch and optional attachments.

NOTE

Check all nuts and bolts for correct tightness.

CHECKING OIL AND GASOLINE

FILL FUEL TANK

Use clean fresh "regular" grade gasoline. Fill tank completely. Gasoline tank capacity is 1-1/2 gallons.

DO NOT FILL GASOLINE TANK WHILE ENGINE IS RUNNING. Avoid spilling gasoline on a hot engine—this may cause an explosion and serious injury.

DO NOT MIX OIL WITH GASOLINE

OIL RECOMMENDATIONS

WINTER
(Below 40° F.)
Use SAE 5W-20

SUMMER
(Above 40° F.)
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits.

The above oil recommendations are the result of extensive testing. No special additives should be used.

FILL CRANKCASE WITH OIL See figure 4.

Remove the oil filler plug. Place the engine level. Fill the crankcase to overflowing. POUR SLOWLY. CAPACITY 4 PINTS. Replace the filler plug.

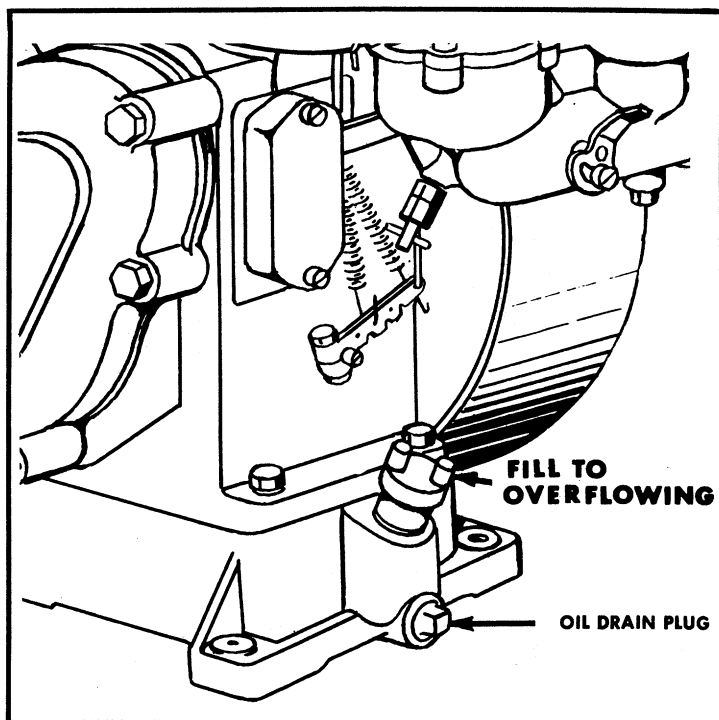


FIGURE 4. OIL FILL AND DRAIN

GENERAL INFORMATION

ENGINE AND DRIVE TRAIN

ENGINE—10 or 16 HP Synchro-Balanced Briggs & Stratton cast iron block with 12 volt electric starter.

TRANSAXLE—Peerless with four forward speeds and reverse.

CREEPER GEAR—3/4 MPH at full throttle. Fourth gear 6-1/2 MPH at full throttle. All speeds variable with throttle.

CLUTCH—Five and one-half inch double faced disc clutch.

ORIENTATION

Your tractor is right hand (R.H.) or left hand (L.H.) as you operate it.

CLUTCH PEDAL.

The clutch pedal is located on the left hand side of the tractor. Depress it with your left foot to separate the clutch and disconnect the power from the engine to the transaxle. The clutch pedal must be depressed to start the engine.

CAUTION

Do not shift while in motion.

BRAKE PEDAL

The brake pedal is located on the right side of the tractor. Depress it with your right foot to stop the tractor. The clutch pedal should also be depressed when coming to a complete stop.

PARKING BRAKE LOCK

The parking brake lock is located on the low left hand side of the tractor. To operate, depress the brake pedal completely and lock by turning the parking brake lock clockwise until it tightens.

To release the parking brake, hold your foot against the brake pedal and turn the parking brake lock counter-clockwise one turn. Release the brake pedal slowly.

GEAR SHIFT LEVER

The selection of the correct gear and throttle setting will be determined by the attachment being used. Generally, anything that uses the tractor engine as a power source should be run at full throttle with the ground speed determined by the gear selection.

| | |
|----------------|----------------------|
| 1st Gear | Rotary Tiller |
| | Snow Thrower |
| | Snow Blade |
| | Mold Board Plow |
| 2nd Gear..... | Rotary Tiller |
| | Snow Thrower |
| | Snow Blade |
| | Mold Board Plow |
| | Heavy Grass Cutting |
| 3rd Gear | Medium Grass Cutting |
| 4th Gear..... | Light Grass Cutting |
| | Road Gear |

A lock is provided to prevent accidentally engaging the 1st gear. Do not move the gear shift lever all the way against the lock.

Second gear has a detent and you can feel it click when you are in second gear. Over shifting will cause the teeth to grind on first gear and can cause damage to the transaxle.

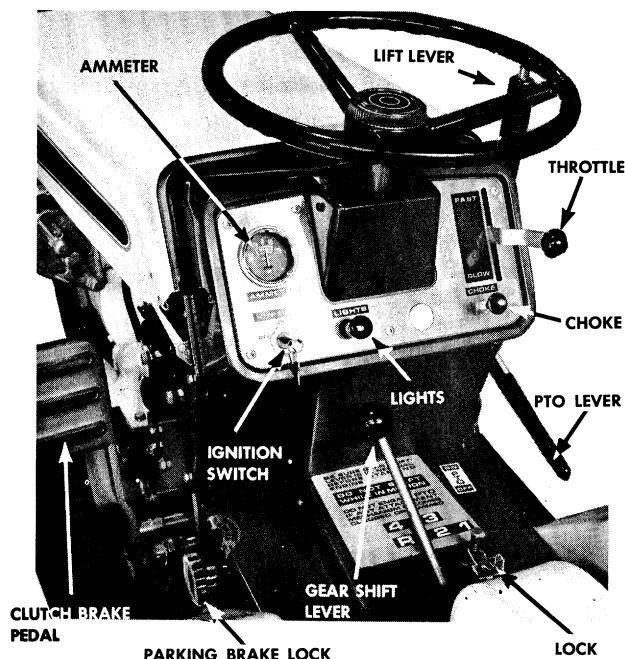


FIGURE 5. CONTROLS

LIFT LEVER

The lift lever is used to change the height of the attachments such as the cutting deck, tiller and plow. To operate, depress the thumb button, move the lift lever to the desired height and release the button.

The three point hitch operates off the lift lever and does not have to be disconnected when attaching the cutting deck or snow blade.

IGNITION SWITCH

Turn the key to the right to engage the starting motor on the engine. To shut off the engine turn the key to the left to the OFF position. See Figure 11. THE IGNITION SWITCH MUST BE ON TO OPERATE THE HEADLIGHTS.

WARNING

Remove the key from the switch when the tractor is not in use.

THROTTLE CONTROL

The throttle is used to regulate the engine speed. Move the throttle up to the FAST position and down to the SLOW position. See Figure 5.

When using the tractor engine for a source of power for the cutting deck and the rotary tiller, the engine should be operated at the FAST speed.

CHOKE

Before starting the engine, pull the choke knob all the way out. After engine starts, move the choke knob in gradually until it is completely in.

When the engine is hot the choke may not be needed to start. See Figure 5.

POWER TAKE OFF (PTO) FRONT AND REAR

There are two PTO's on your tractor. The front PTO (See Figure 6) is located behind the grille and is used to operate the snow thrower. This PTO is attached directly to the engine and runs whenever the engine is running.

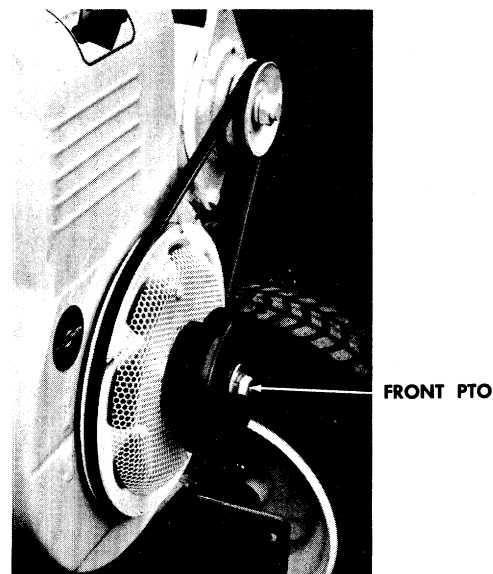


FIGURE 6. FRONT PTO SHOWN WITH GRILLE REMOVED

The rear PTO (See Figure 7) is located under the tractor and is used to operate the grass cutting deck and the rotary tiller.

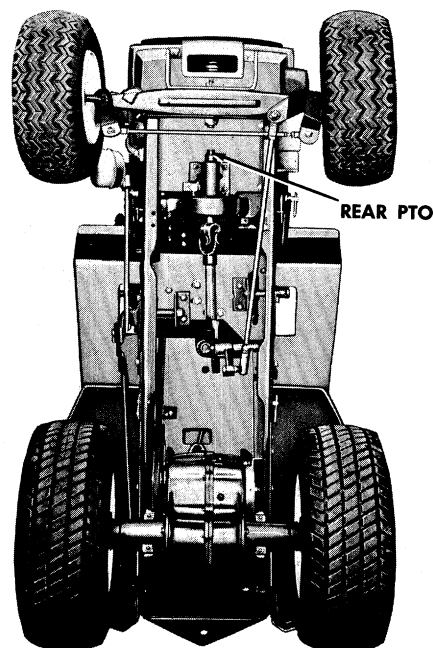


FIGURE 7. REAR PTO SHOWN WITH DRIVE SHAFT ATTACHED

The rear PTO can be shut off while the engine is running by moving the PTO lever, located on the right hand side of the tractor, into the OFF position. See Figures 5 and 8.

The PTO Lever must be in the disengaged position before the engine will start. See Figure 8.

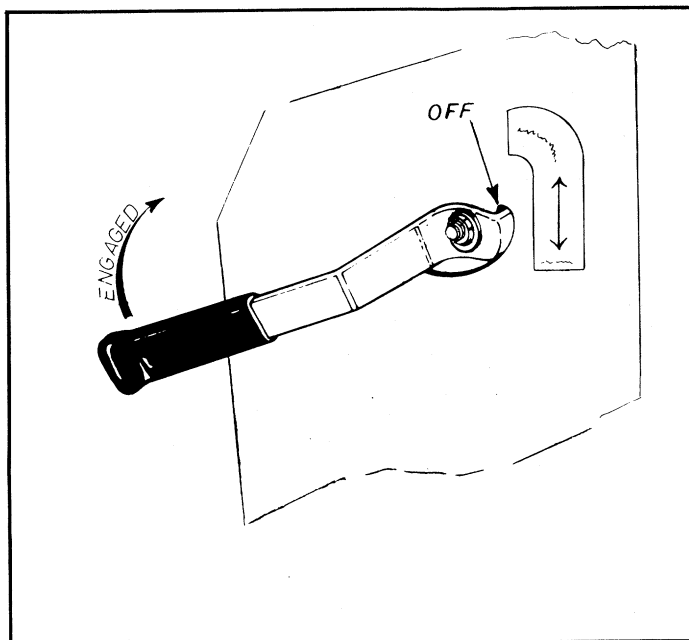


FIGURE 8. PTO LEVER

LIGHTS

Pull the light switch out to turn on the head lights. The ignition switch must be on to operate the head lights.

WHEELS

Front (10 and 16 HP) 16 x 6.50-12
Rear (10 and 16 HP) 23 x 9.50-12

Tire pressure is 15 psi.

The rear valve stems are to the inside to accommodate wheel weights.

One hundred pounds (two 50 pound weights) can be attached to the rear wheels to increase rear traction for attachments such as the plow, snow blade, snow blower and rotary tiller.

AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the "Fast" position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See Figure 5.

REAR WHEEL ADJUSTMENT

Each rear wheel is adjustable out 2-3/4 inches on the axle. See Figure 9.

NOTE

Do not over extend the hubs.

The rear hubs are extended to give greater stability when operating on hilly terrain.

To adjust, loosen the hex bolt and slide the rear hubs out.

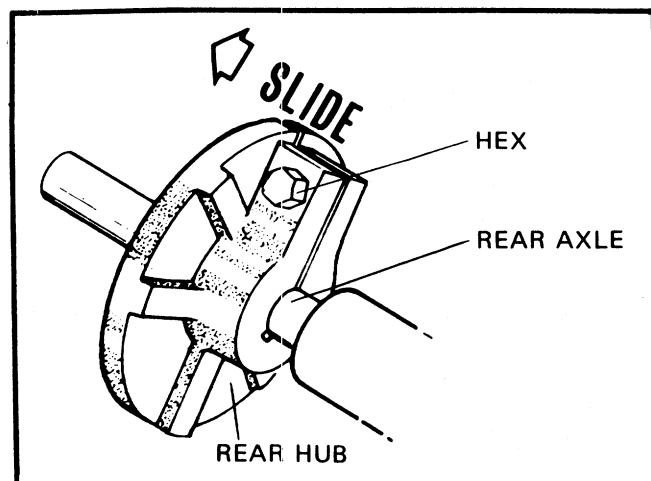


FIGURE 9. REAR HUBS

SEAT

The seat is adjustable forward or backward by removing the seat bolt and reassembling it in a different hole.

OPERATING INSTRUCTIONS

IMPORTANT

After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
 - Shift transmission to neutral
 - Set parking brake
 - Disengage attachment clutch
 - Shut off engine
 - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

STARTING YOUR ENGINE

To get the feel of your tractor, operate it in a large open space until you become familiar with the controls.

1. Be sure you have read the manual to acquaint yourself with the controls.
2. Fill engine with oil and gasoline as outlined on page 5 of this manual.
3. Open fuel shut-off valve located under the gasoline tank. See Figure 10.

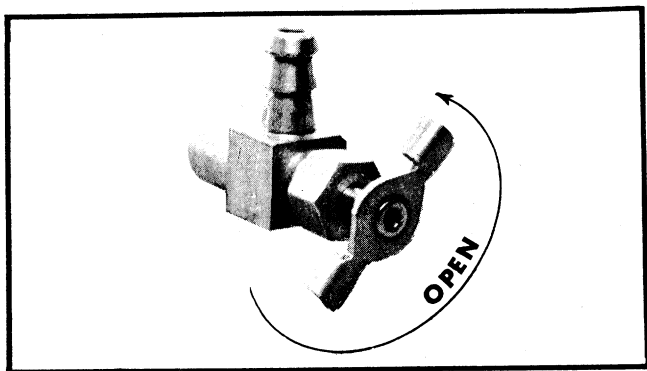


FIGURE 10. FUEL SHUT OFF VALVE

4. Attach the spark plug wire.
5. Pull the choke knob all the way out.
6. Place the throttle control lever halfway between FAST and SLOW.
7. Place the PTO Lever in the disengaged position. See Figure 14. The engine will not start unless the PTO Lever is disengaged.
8. Depress the Clutch Pedal. The engine will not start unless the clutch pedal is depressed.
9. Turn the ignition key to the right to engage the starter. When the engine starts, move the choke knob in half way. After the engine warms up, push the choke knob in gradually until completely in.

NOTE

When the engine is hot, the choke may not be needed to start the engine.

CAUTION

Do NOT run starter for more than 30 seconds at a time. If engine does not start after several tries, place throttle control in FAST position, wait several minutes and try again without moving the throttle lever from the FAST position.

STOPPING YOUR ENGINE

To stop the engine, turn the ignition key to the left.

WARNING

Never leave the ignition key in the tractor when not in use to prevent accidental starting.

Remove the spark plug wire from the spark plug when tractor is not in use to prevent accidental starting.

POWER TAKE OFF (PTO)

The PTO should be in the "OFF" position (Handle Down) when starting the engine and when attachments using the PTO are not on the tractor. If, while using the cutting unit or the rotary tiller, they become clogged and will not operate, shut off the engine AND THE PTO and remove the spark plug wire before clearing the attachment.

The PTO engagement lever should be engaged fast to prevent wear on the PTO belts.

The cutting unit and the rotary tiller can be raised or lowered while they are operating under full power. For example, the rotary tiller can be lifted from the ground with the lift lever in order to turn the tractor around without shutting off the PTO.

MAINTENANCE

CLUTCH ADJUSTMENT

- Step 1. Remove the spark plug from the engine.
- Step 2. Rotate the clutch disc by hand and tighten the elastic locknut (Figure 11) until the bearing stops rotating (Figure 12).

NOTE

When the bearing stops turning, all the play has been taken from the throw out assembly.

- Step 3. Back off the elastic locknut just enough for the bearing to rotate freely when you rotate the clutch disc.

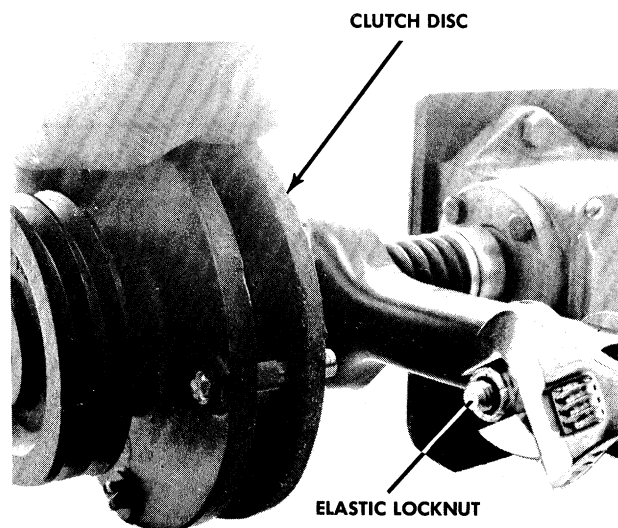


FIGURE 11. CLUTCH ADJUSTMENT

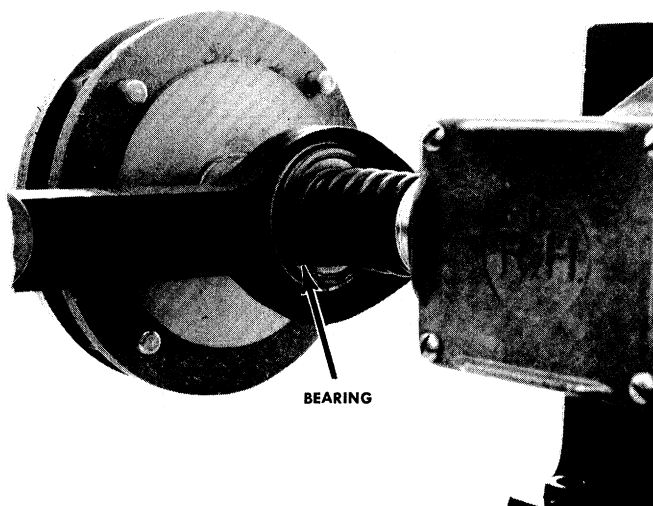


FIGURE 12. THROW OUT BEARING

Step 4. To ensure that the clutch disc is separating, check the pressure on the clutch disc.

WARNING

Do not have the engine running.

Depress the clutch pedal with your left hand and try to rotate the small spring located between the pressure plate and the throwout yoke with your right hand. See Figure 19. You should be able to rotate this spring by hand. If it does not repeat steps 2 and 3.

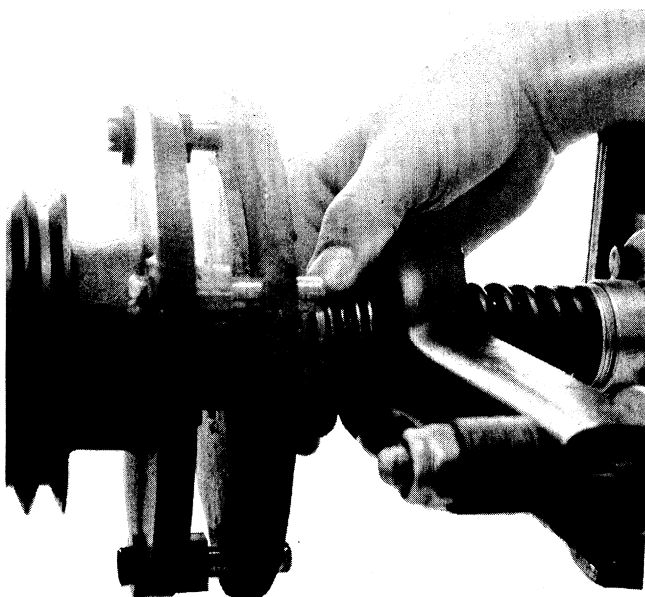


FIGURE 13. CLUTCH SPRING

TROUBLESHOOTING CLUTCH PROBLEMS

If the clutch does not disengage after following the proper adjustment procedures or you cannot shift from neutral to any gear without the gears grinding, the following conditions could exist.

1. The milled slot in the rear pressure plate is not centered and it is binding on the roll pin. Replace the rear pressure plate.
2. If either of the pressure plates are warped, the clutch will not separate and they should be replaced.
3. If any weld splash is on either pressure plate, it will cause the disc to hang up and the clutch will not disengage. Remove the splash or replace the pressure plates.
4. When the holes are not drilled properly in the fiber clutch disc it will hang up on the drive pins and will not separate. Replace the fiber disc.
5. Rust on the center shaft of the clutch can cause the spring guides under the small spring to bind. See Figure 13. Remove the rust from the shaft and lubricate with a thin film of oil.

BRAKE ADJUSTMENT

To adjust the brake, tighten the locknut on the disc brake located on the left hand side of the transaxle. The brake should be tightened enough to stop the tractor when the pedal is depressed but still allow the disc to turn free between the brake pads when the pedal is released. See Figure 14.

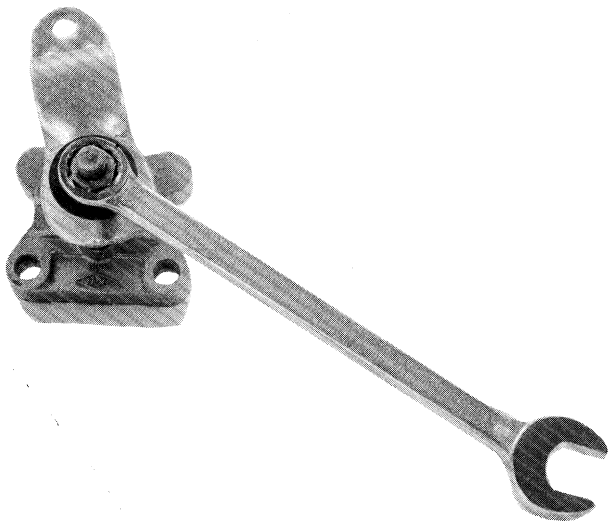


FIGURE 14. BRAKE ADJUSTMENT

POWER TAKE OFF (PTO) BELT REMOVAL

1. Drive out the roll pin with a drift and a hammer. See Figure 15.

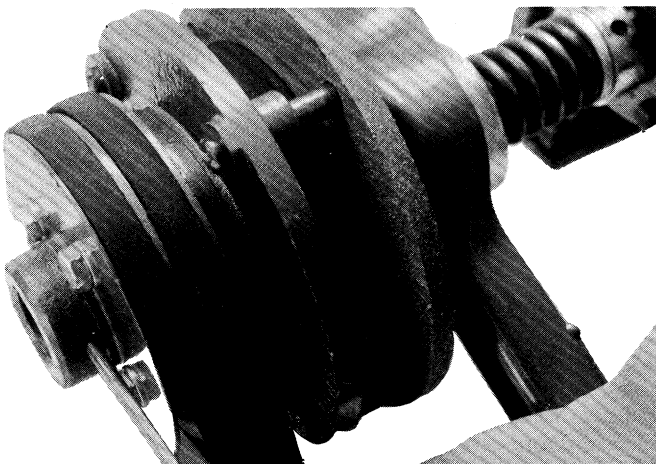


FIGURE 15. REMOVING ROLL PIN

2. Remove the four cap screws on the inside of the pulley. See Figure 16.

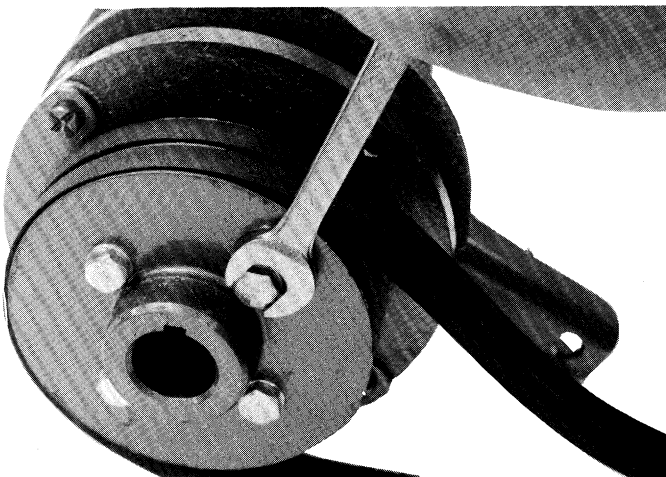


FIGURE 16. REMOVE CAP SCREWS

3. Slide the front half of the pulley forward and the back half of the pulley backwards and drop the belts between the two halves. See Figure 17.

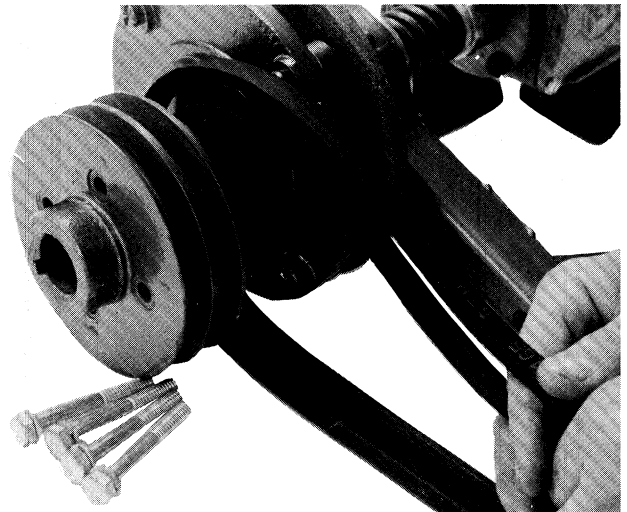


FIGURE 17. SPLITTING THE PULLEY

4. Remove the belt guard on the PTO Spindle and remove the old belts.
5. Reassemble in reverse order with two matched belts. Adjust the lower belt guard so it is about 1/8" away from the belts when the PTO Lever is engaged.

NOTE

A piece of cardboard can be used as a feeler gauge to adjust the lower belt guard.

TRANSMISSION BELT

ADJUSTMENT—The tension of the belt is increased by **UNSCREWING** the leveler screw until you obtain a 1/2" deflection on the belt when you apply 10 pounds of force midway between the transmission pulley and the pulley. Lock leveler in place by tightening the lock nut.

REMOVAL—Screw the leveler screw all the way in until the idler is loose and remove the belt. See Figure 18.

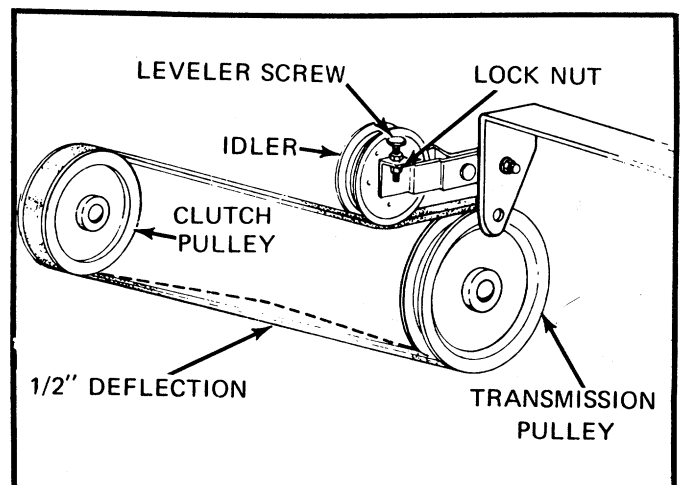


FIGURE 18. TRANSAXLE BELT

STARTER—GENERATOR BELT

If the starter-generator turns over and the engine does not turn over or there is a high pitched squeal when the starter-generator is turned on, it is an indication of a loose belt.

NOTE

The starter-generator belt should be checked for proper adjustment after the first 10 hours of operation.

ADJUSTMENT—To tighten, loosen the bolt in the bracket slightly, loosen the belt in the adjusting strap and swing the starter-generator away from the engine until the belt is tight. (Belt should deflect $\frac{1}{4}$ " when depressed with your thumb.) Tighten all bolts. See Figure

REMOVAL—Follow same procedure as above except when the bolts on the bracket and adjusting strap are loose, swing the starter-generator towards the engine until the old belt can be removed and replaced. Follow the above procedure for tightening the new belt. See Figure

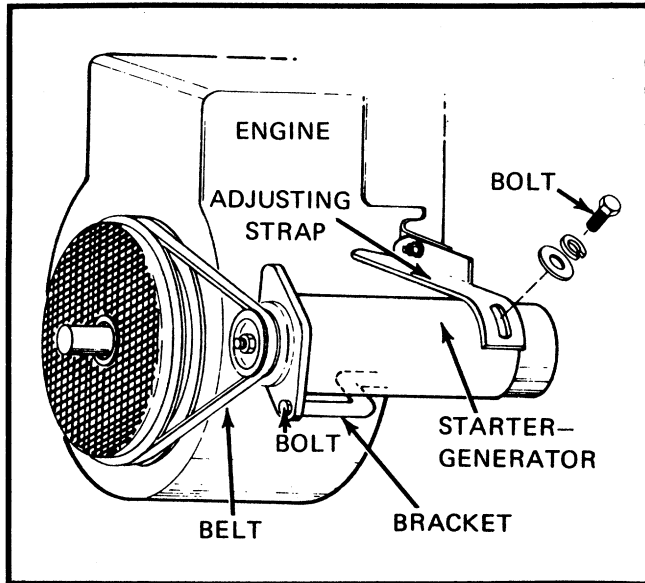


FIGURE 19. STARTER-GENERATOR BELT

WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor.

The front wheels should toe-in $\frac{1}{8}$ inch.

To adjust the toe-in follow these steps.

1. Remove the elastic locknut and lift the tie rod end from the wheel bracket.
2. Loosen the hex jam nut on the rod.
3. Adjust the tie rod assembly for correct toe-in.

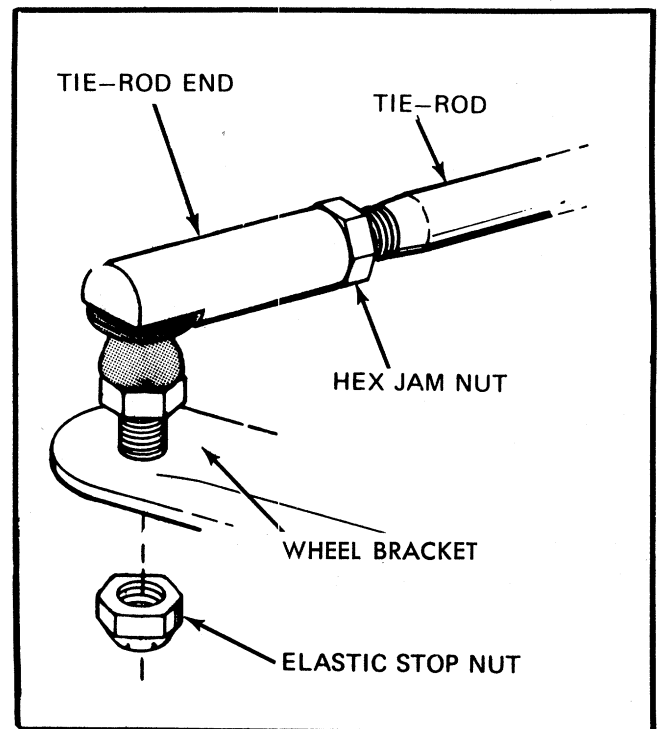


FIGURE 20. TIE ROD END

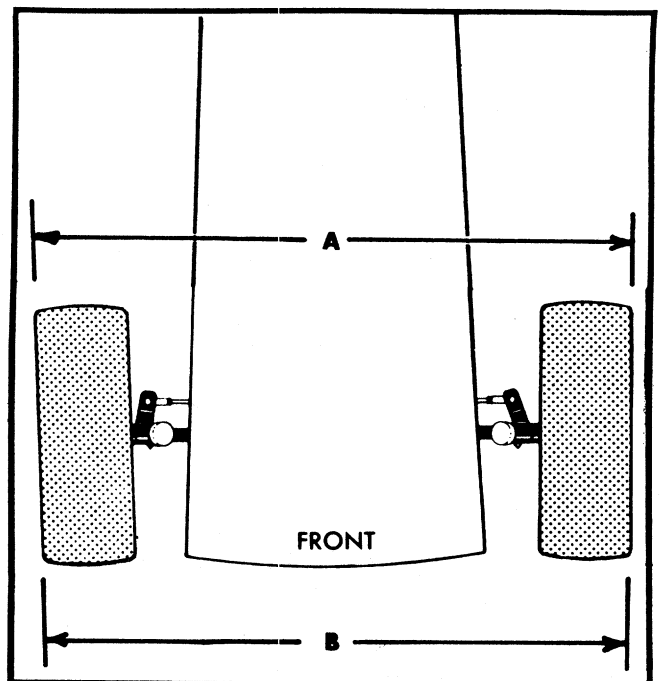


FIGURE 21. TOE-IN ADJUSTMENT

Dimension "B" should be approximately $\frac{1}{8}$ " less than Dimension "A".

- (A) To increase dimension "B", screw tie rod into tie rod end.
- (B) To decrease dimension "B", unscrew tie rod from tie rod end.
- (C) Reassemble tie rod. Check dimensions. Readjust if necessary.

NOTE

To insure safe operation of your unit
ALL nuts and bolts must be checked
periodically for correct tightness.

LIFT LEVER LOCKOUT

The lift lever, located on the right hand side of the tractor, is used to raise and lower the attachments. A lockout lever is provided to keep the ratchet from engaging. The lockout is used on the snow blade and snow thrower so it is free floating and the lockout **MUST** be used when the electric lift kit is installed. See Figure 22.

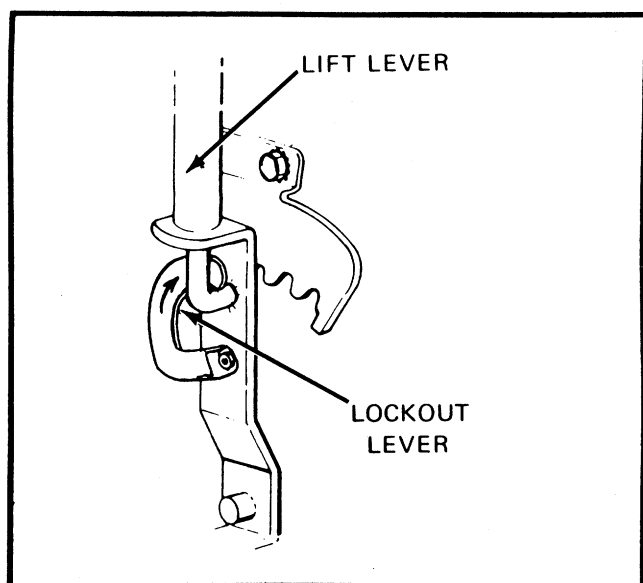


FIGURE 22. LOCKOUT LEVER

BATTERY CARE

BATTERY FAILURE—Many times new batteries are returned for charging within a few days or a week after sale. Before returning the battery to the dealer who sold you the tractor, make these following checks:

1. Was the battery fully charged when installed? The dry-pack battery should have been placed on a charger and the specific gravity of the battery should read 1.265 to 1.275 before it was installed in the tractor.
2. Were the battery terminals clean, greased and properly tightened when the battery was installed?
3. Batteries are usually involved in ANY starting failure, however, insufficient hours of driving, worn cables, trouble in the electrical system, corroded connections, slipping drive belt can cause a battery to become discharged without the battery being at fault.

SERVICING YOUR BATTERY

It is alright to use drinking water in your battery, excluding mineral water.

Adding water to a battery cell will lower the specific gravity of the electrolyte. Water should not be added unless the tractor is going to be run immediately during freezing weather.

Maintain electrolyte level in the battery to the level indicated on the top of the battery.

Keep the terminals clean and coated with grease.

BATTERY STORAGE

If your tractor is to be stored during an off-season, the battery should be removed from the tractor, placed in a charger until the specific gravity reads 1.265 to 1.275 and stored at approximately 72° F. Batteries should not be placed directly on cement as this will drain the battery. Recharge to bring the specific gravity to normal before placing it in the tractor after storage.

BATTERY REPLACEMENT

Your battery is a standard automotive type battery and replacements can be purchased locally through your local dealer under part number 725-130.

SPECIFICATIONS

45 Amp. Hours at 20 hours.
9 plates per cell.
Splash Proof Vents
Round automotive type terminals.
Size: 9 x 6-3/4 x 7-1/2 inches.

NOTE

Size may vary slightly between different makes of batteries. Be sure it will fit in the tractor battery case.

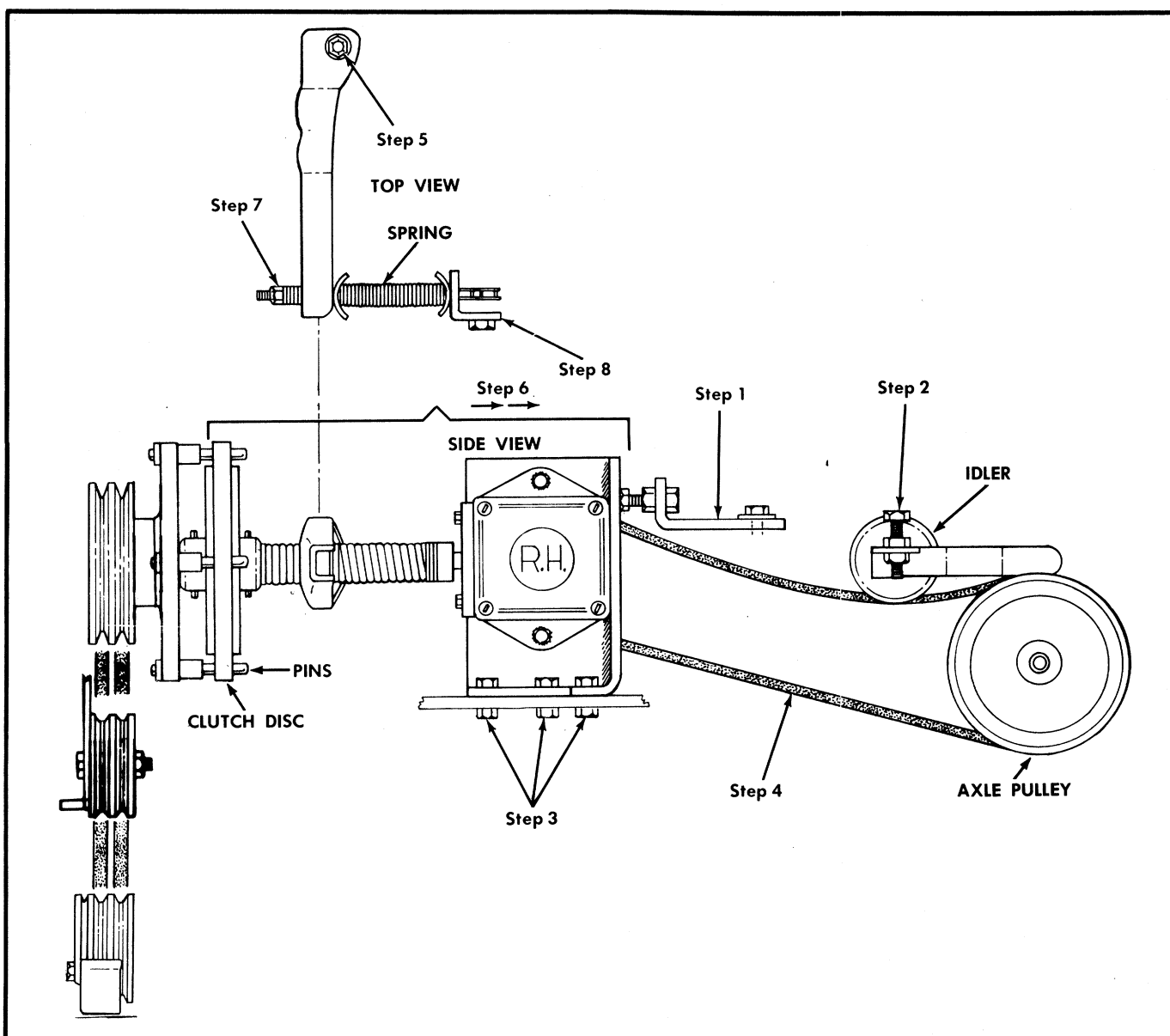


FIGURE 23. CLUTCH REMOVAL

CLUTCH REMOVAL (Refer to Figure 23) Preparation: Before working on the tractor, remove the spark plug from the engine and turn the steering wheel all the way to the left.

Place the PTO Lever in the disengaged position. See Figure 8.

Step 1. Remove the support bracket behind the clutch.

Step 2. Loosen the belt tightener on the idler so the belt is slack.

Step 3. Remove the four screws holding the rear of the clutch in place.

NOTE

A reinforcement plate is under the screws.

Step 4. Remove the belt.

Step 5. Remove the elastic locknut and shoulder bolt.

NOTE

Use a 1/4" allen wrench on the shoulder bolt.

Step 6. Push the clutch assembly to the rear of the tractor until the pins clear the clutch disc, then move the clutch towards the left side of the tractor.

Step 7. Remove the elastic locknut and all the washers from the stud. The large cup washers and spring will be loose now and can be set aside.

Step 8. Remove the two screws holding the "el" bracket to the frame.

Step 9. Remove the clutch assembly from the tractor.

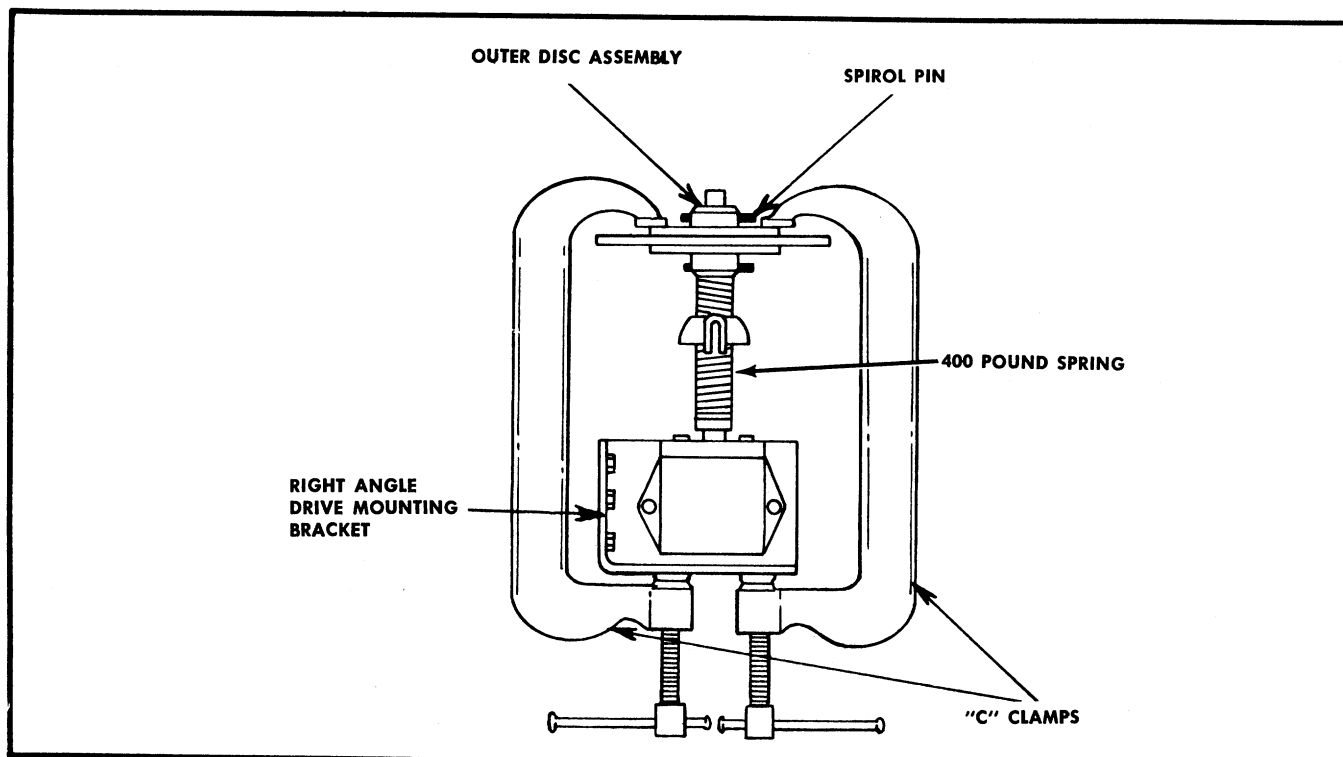


FIGURE 24. CLUTCH DISASSEMBLY

CLUTCH REPAIR

The clutch can be replaced as an entire unit or it can be disassembled and rebuilt.

If you disassemble the clutch, place it in an arbor press or use two "C" clamps as shown in Figure 24 to release the pressure on the spirol pin.

WARNING

The large spring on the clutch is compressed to 400 pounds pressure and extreme care should be taken during disassembly.

NOTE

Apply the pressure to the outer disc assembly.
Drive the spirol pin out with a punch.
Slowly release the pressure.
Removal of the second spirol pin will free the other parts for inspection or replacement.

LUBRICATION

Your tractor has been engineered to give you years of trouble-free service, however, by following these simple lubrication procedures, you can greatly extend the life of your tractor.

1 ENGINE LUBRICATION

DO NOT MIX OIL WITH GASOLINE

OIL RECOMMENDATIONS (4 PINTS)

WINTER
(Below 40°F.)
Use SAE 5W-20

SUMMER
(Above 40°F.)
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits.

Check before starting and after every 5 hours of operation. **BE SURE OIL LEVEL IS MAINTAINED.**

Change oil after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove the oil drain plug. Drain oil while engine is warm. Remove oil filler cap or plug and refill with new oil. Replace oil filler cap or plug. Add oil regularly after each 5 hours of operation.

The above oil recommendations are the result of extensive testing. No special additives should be used.

2 TRANSAXLE

Lubricate with 4 pints of SAE E. P. 90 oil. Refill if below upper plug level. Prelubricated at factory.

The following grease fittings should be lubricated every 25 hours with an automotive multi-purpose grease.

3 POWER TAKE OFF (REAR)

Lubricated at the factory and requires no further lubrication.

4 DECK PIVOT BAR

2 fittings—one each side of the tractor

5 STEERING GEAR

1 fitting—center of tractor

6 AXLE PIVOT

1 fitting—center of tractor

7 KING PIN

2 fittings—one each side of the tractor

8 WHEEL BEARINGS

2 fittings—one each side of the tractor

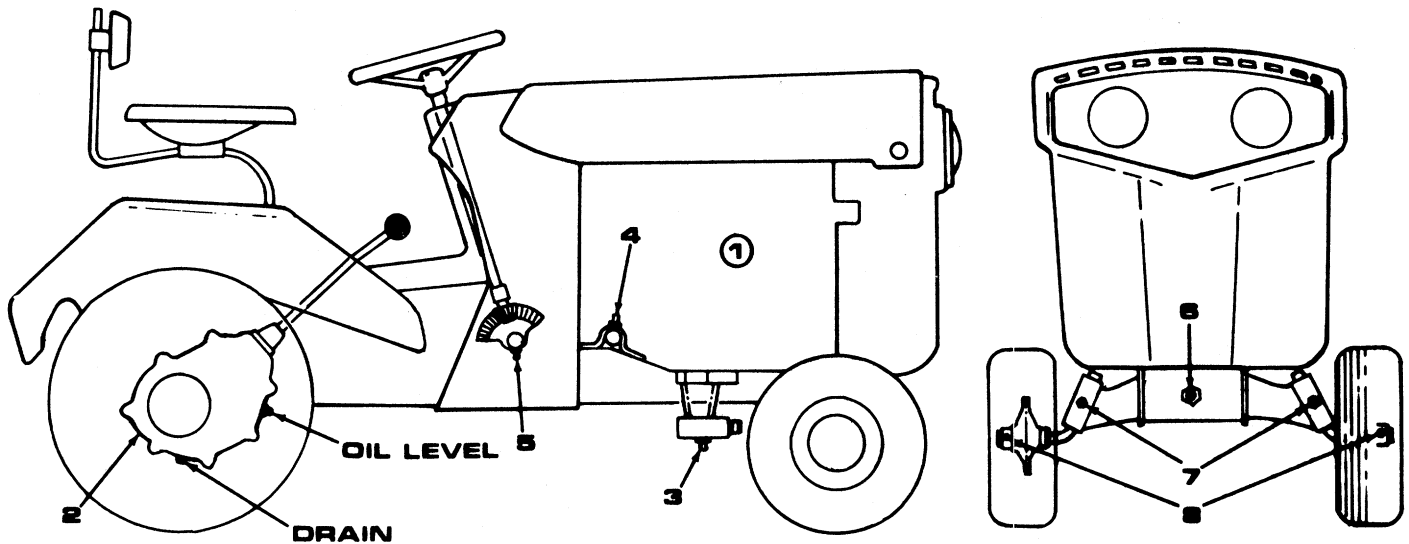


FIGURE 25. LUBRICATION POINTS

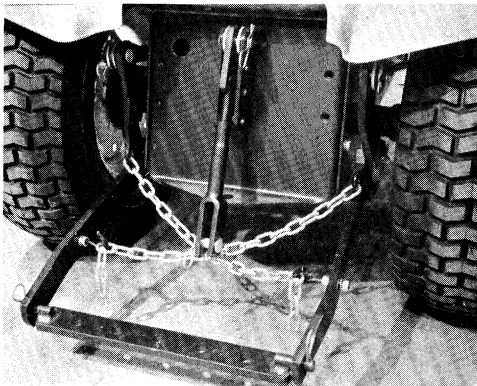
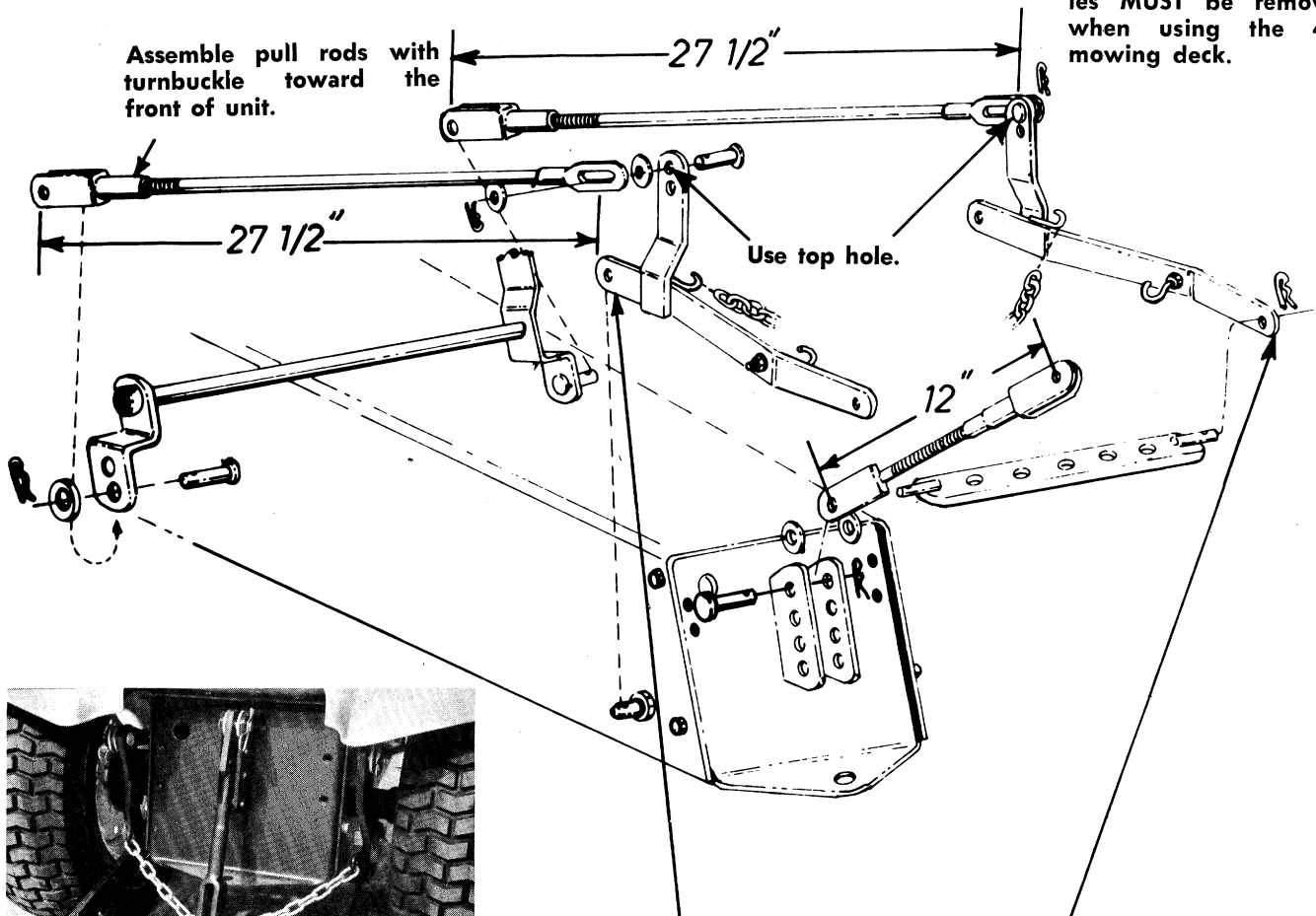
Assembly of Three-Point Hitch

DIMENSIONS FOR ASSEMBLY OF 3-POINT HITCH ON THE GEAR DRIVEN TRACTOR

These dimensions are general and can be set where ever you like. The important thing is that you assemble the pull rods and draft bars as shown only.

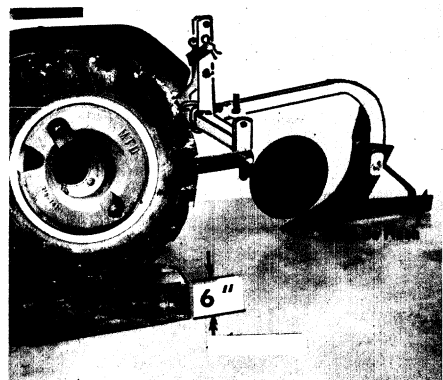
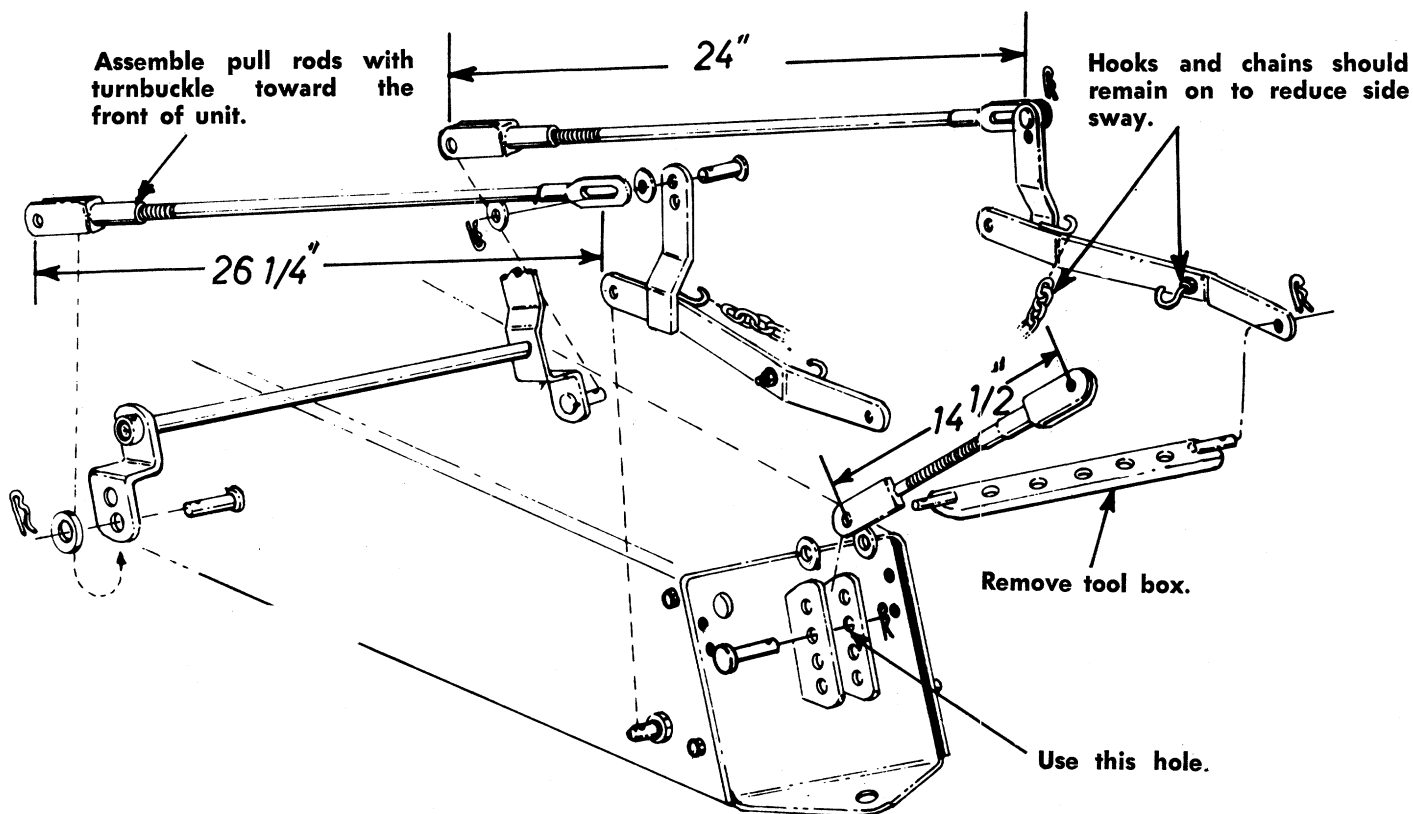
NOTE

Pull rods and turn buckles **MUST** be removed when using the 42" mowing deck.



DIMENSIONS FOR ASSEMBLY OF 12" PLOW (194-920A) OPTIONAL EQUIPMENT ON THE GEAR DRIVEN TRACTOR

NOTE: Using these dimensions you should plow approximately 6" deep and have 5" ground clearance.

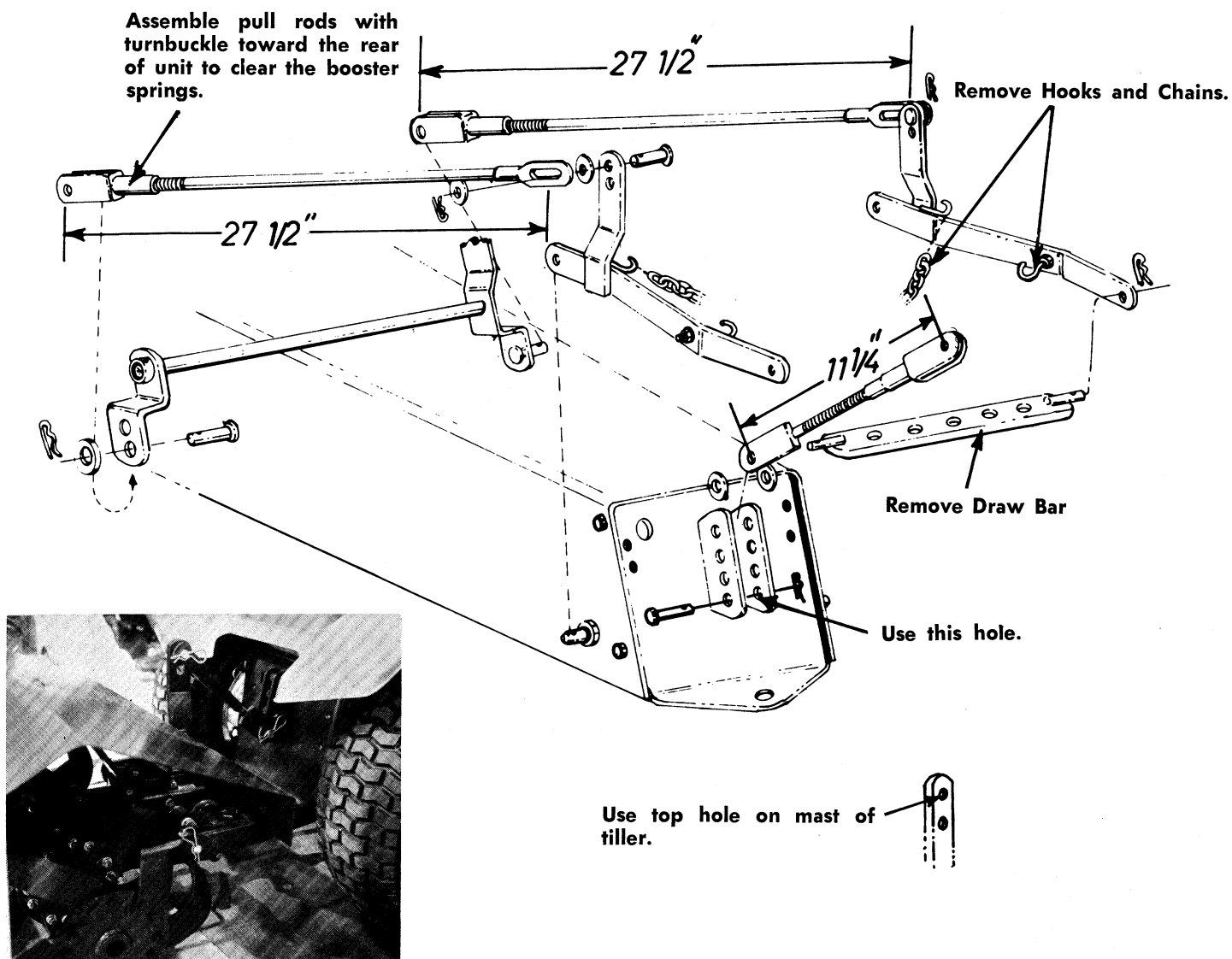


Block up left rear wheel according to how deep you wish to plow. The type of soil and working conditions may require a slight change in the above setting.

← Example.

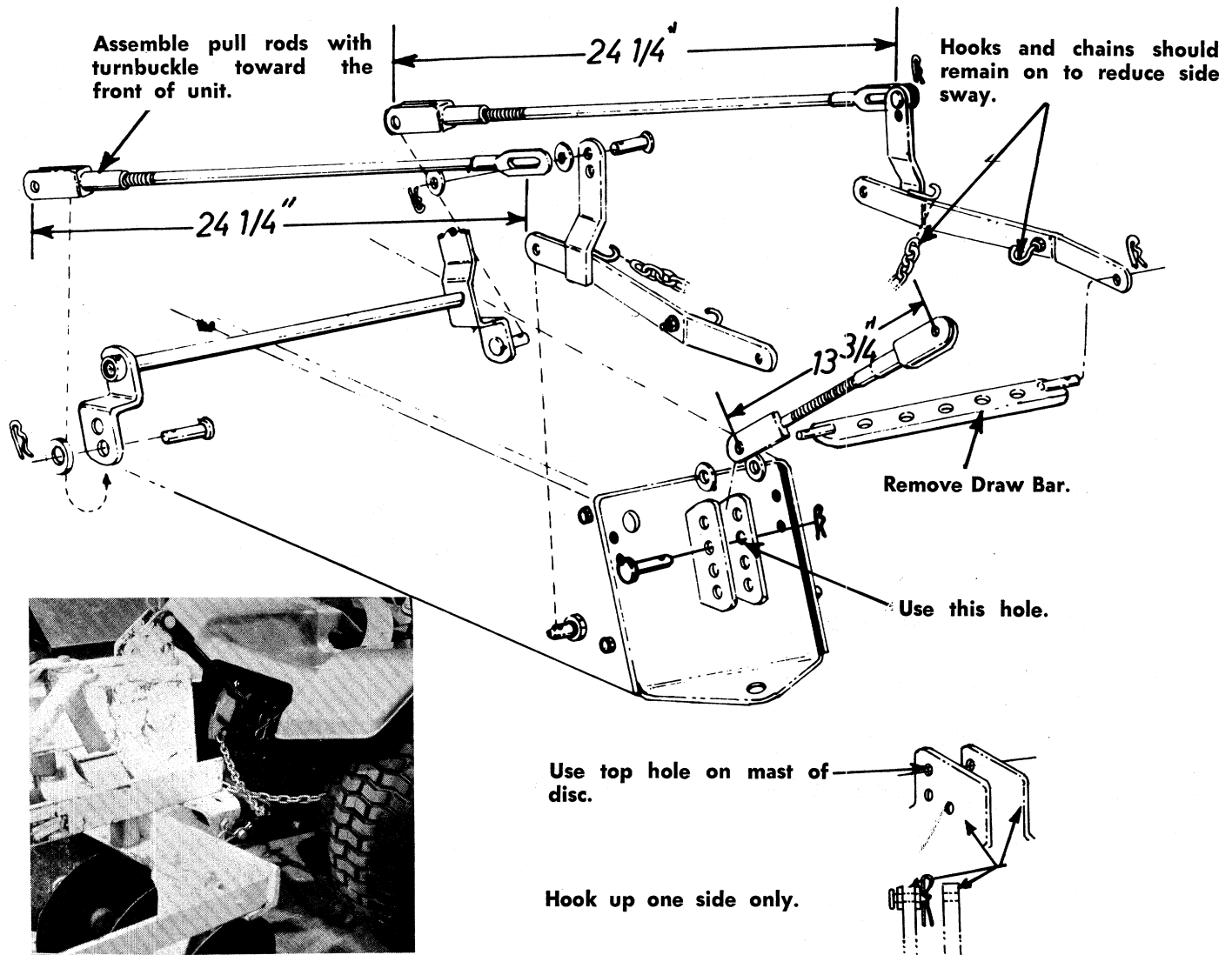
**DIMENSIONS FOR ASSEMBLY OF ROTARY TILLER ATTACHMENT (194-966A) OPTIONAL EQUIPMENT ON
GEAR DRIVEN TRACTOR**

NOTE: Using these dimensions you should till approximately 4" deep, ground clearance 6" and 1/4" clearance between drive shaft and transaxle.



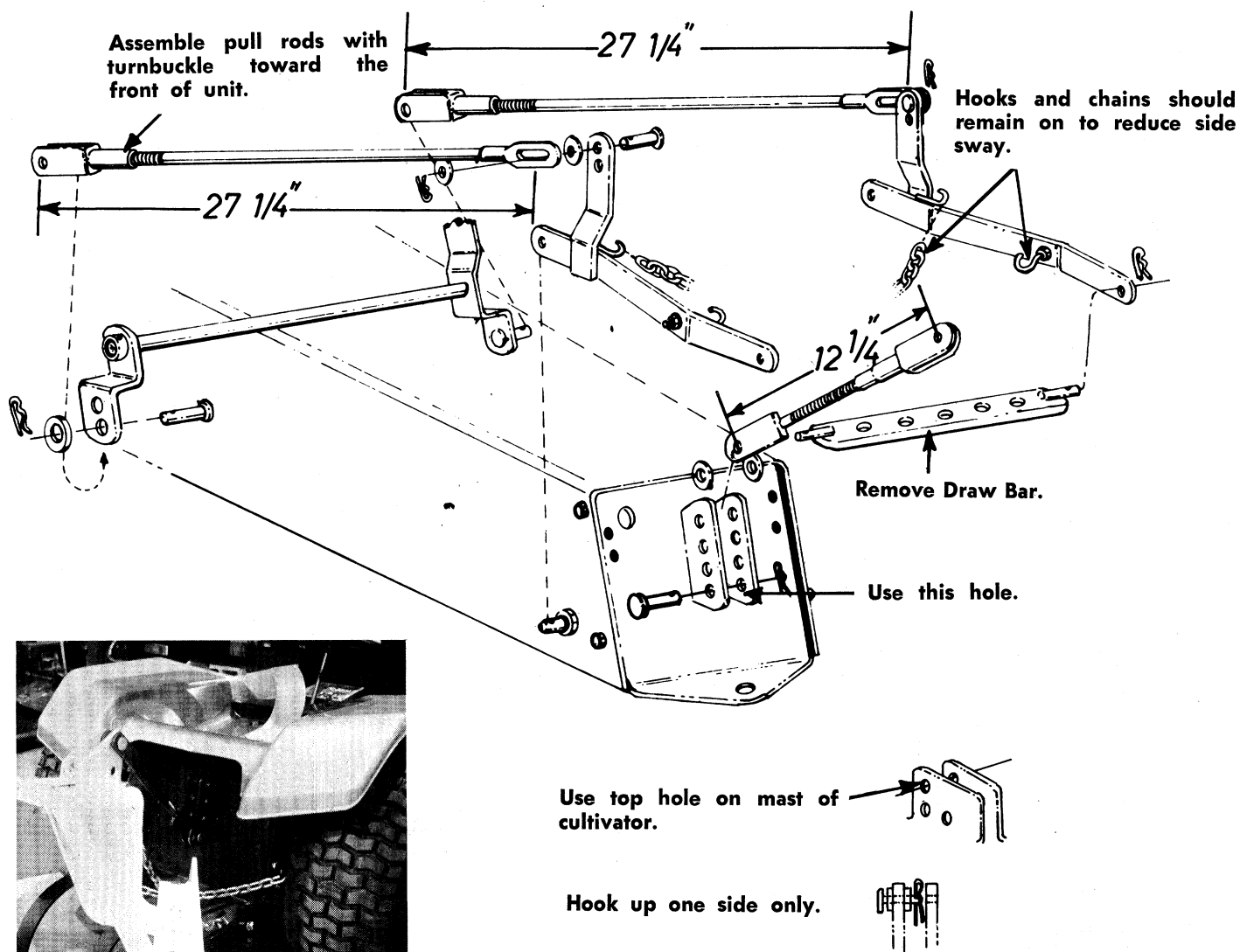
**DIMENSIONS FOR ASSEMBLY OF DOUBLE DISC (194-921A) OPTIONAL EQUIPMENT ON THE
GEAR DRIVEN TRACTOR**

NOTE: Using these dimensions you should disc approximately 4" deep and have 5" ground clearance.



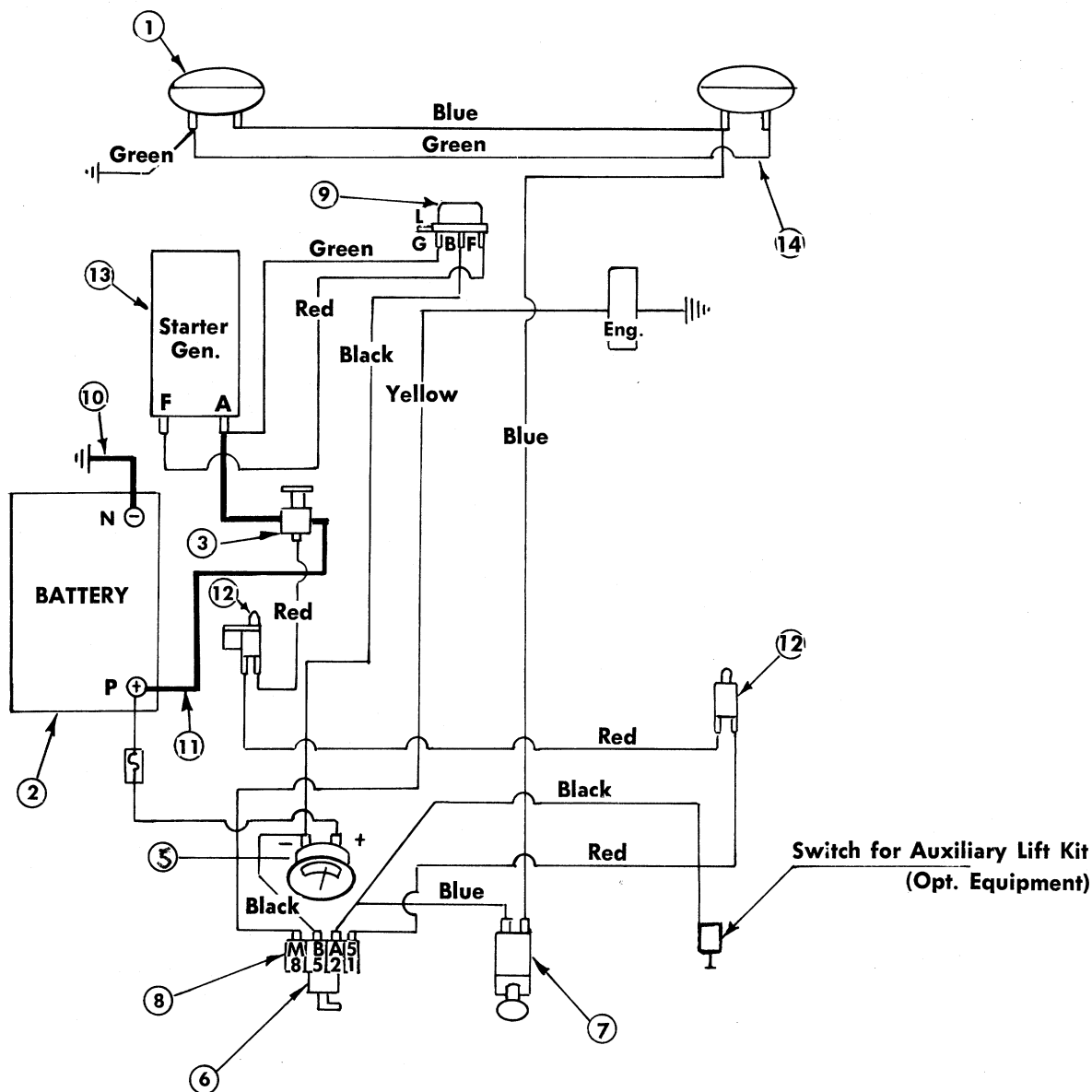
**DIMENSIONS FOR ASSEMBLY OF SPRING TOOTH CULTIVATOR (194-922A) OPTIONAL EQUIPMENT ON THE
GEAR DRIVEN TRACTOR**

NOTE: Using these dimensions you should cultivate approximately 4" deep and have 3" ground clearance.



TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

| TROUBLE | LOOK FOR | REMEDY |
|---------------------------------|--------------------------------------|---|
| Engine fails to start. | Safety System | <p>A. Check for a blown fuse in the wire leading from the positive terminal of the battery.</p> <p>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.</p> <p>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.</p> <p>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 gauge) and a small wire (#18 gauge) attached to it.</p> <p>E. Check all wires and cable for tightness.</p> <p>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.</p> <p>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.</p> |
| | Blocked fuel line or empty gas tank. | Clean fuel line; check fuel supply. Also check fuel shut-off valve. |
| | Defective spark plug. | <p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p> |
| | Throttle setting. | Throttle control lever not in the starting position. |
| | Loose connections | Spark plug wire loose. |
| Hard starting or loss of power. | Dirty air cleaner. | Remove air cleaner and clean as outlined in Engine Manual . |
| | Carburetor improperly adjusted. | Review paragraph Carburetor Adjustment . |
| Excessive vibration. | Bent or damaged blade spindle. | Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman. |
| Unit fails to discharge grass. | Discharge chute clogged. | Clean discharge chute and inside of deck. |
| | Foreign object lodged in deck. | Remove object from deck. See CAUTION following step 1 in paragraph Operation . |
| Engine overheats. | Obstructions in air passages. | Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins. |
| | Oil level. | Fill crankcase to proper oil level. |

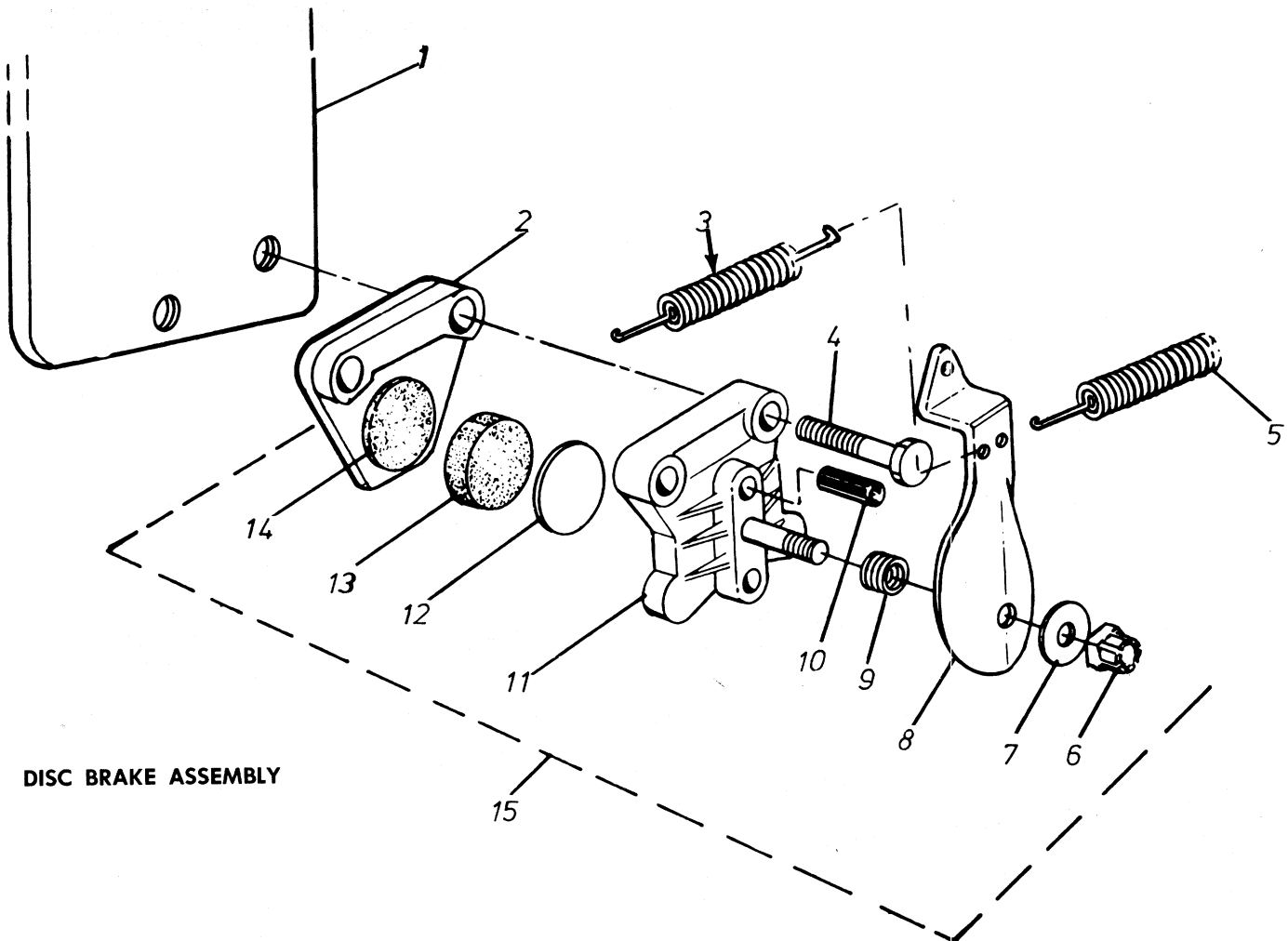


**PART LIST FOR SCHEMATIC OF ELECTRICAL SYSTEM
10 AND 16 H.P. TRACTOR**

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|-------------|-------------|---------------|-----------------------------------|-------------|
| 1 | 725-222 | | Head Light | |
| 2 | 725-130 | | Battery | |
| 3 | 725-270 | | Solenoid | |
| 4 | | | | |
| 5 | 725-119 | | Ammeter | |
| 6 | 725-267 | | Key Switch | |
| 7 | 725-202 | | Light Switch | |
| 8 | 725-275 | | Wire Harness | |
| 9 | 725-390 | | Voltage Regulator | |
| 10 | 725-139 | | Battery Ground Wire | |
| 11 | 725-258 | | Bat. to Sol. & Bat. to Amp. Meter | |
| 12 | 725-268 | | Safety Switch | |
| 13 | 725-144 | | Starter and Generator | |
| 14 | 725-204 | | Electric Wire | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size, as shown on parts list.

144-860A 144-960A



DISC BRAKE ASSEMBLY

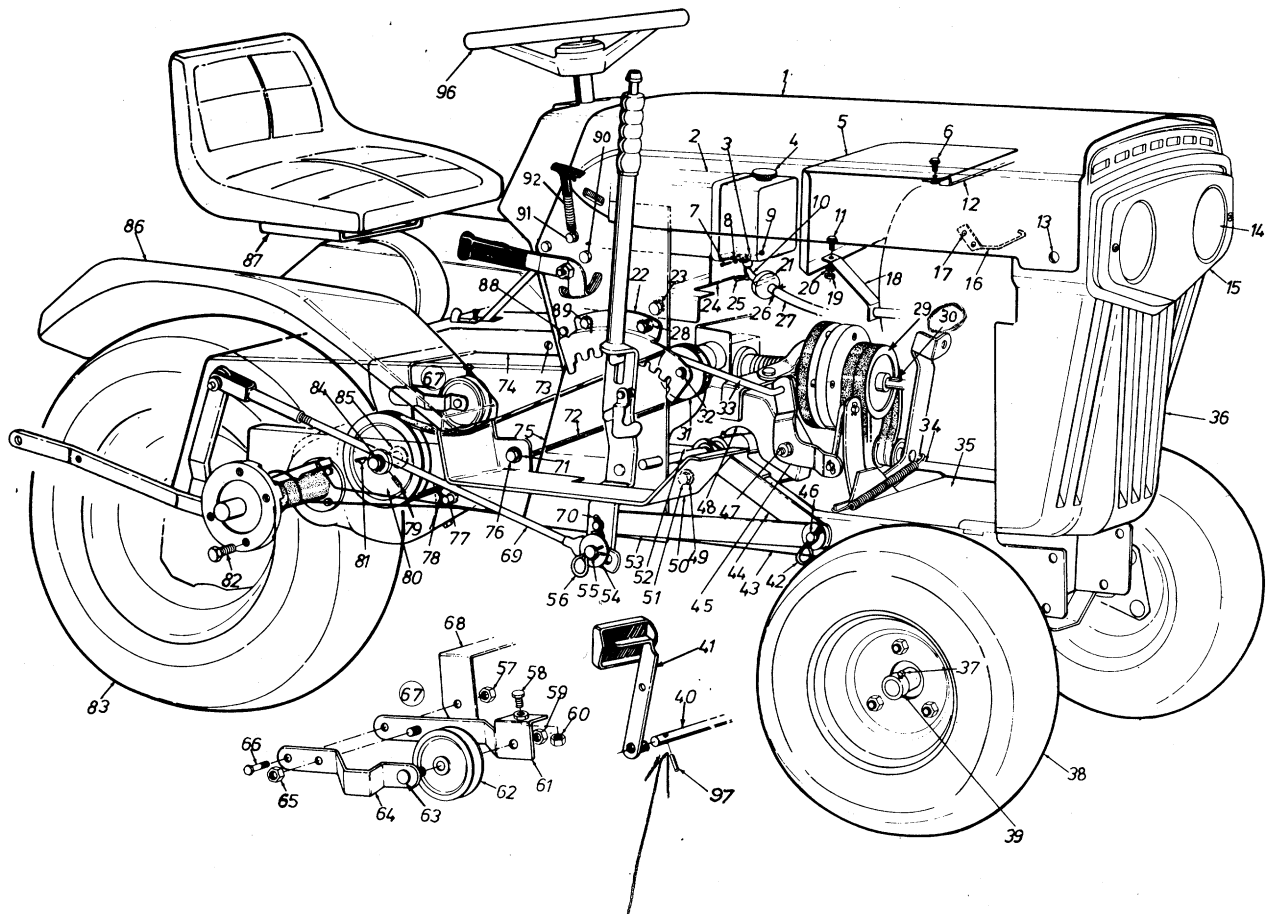
PARTS LIST FOR DISC BRAKE ASSEMBLY MODELS 144-860A AND 144-960A

| REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---------|-------------|------------|--|----------|
| 1 | 10385 | | Transaxle Mounting Bracket Ass'y. | |
| 2 | HH-12-04338 | | Casting-Carrier Side | |
| 3 | 732-245 | | Spring (Brake) | |
| 4 | 710-442 | | Hex Hd. Cap Scr. 5/16-18 x 1-1/2" Lg.* | |
| 5 | 732-199 | | Brake Return Spring | |
| 6 | HH-02-03631 | | Lock Nut | |
| 7 | HH-03-03032 | | Thrust Washer | |
| 8 | HH-18-03525 | | Cam Lever | |
| 9 | HH-06-03031 | | Compression Spring | |
| 10 | HH-05-03034 | | Push Pin | |
| 11 | HH-12-03357 | | Casting Cam Side | |
| 12 | HH-03-03033 | | Back-Up Disc. | |
| 13 | HH-15-03077 | | (Cam Side) 1.110" Dia. x .370 thk. | |
| 14 | HH-15-03074 | | (Car. Side) 1.110" Dia. x .245 thk. | |
| 15 | 761-132 | | Caliper Disc Brake Ass'y. Comp. | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

144-860A 144-960A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



ONE END THREADED
 $\frac{1}{2}$ " X 20 THD
BRAKE BRKT LEVER WELDED TO THIS PART
ROLL PIN HOLE IN OTHER END
RIGHT HAND SIDE OF TRACTOR

PARTS LIST FOR RIGHT HAND VIEW 144-860A AND 144-960A

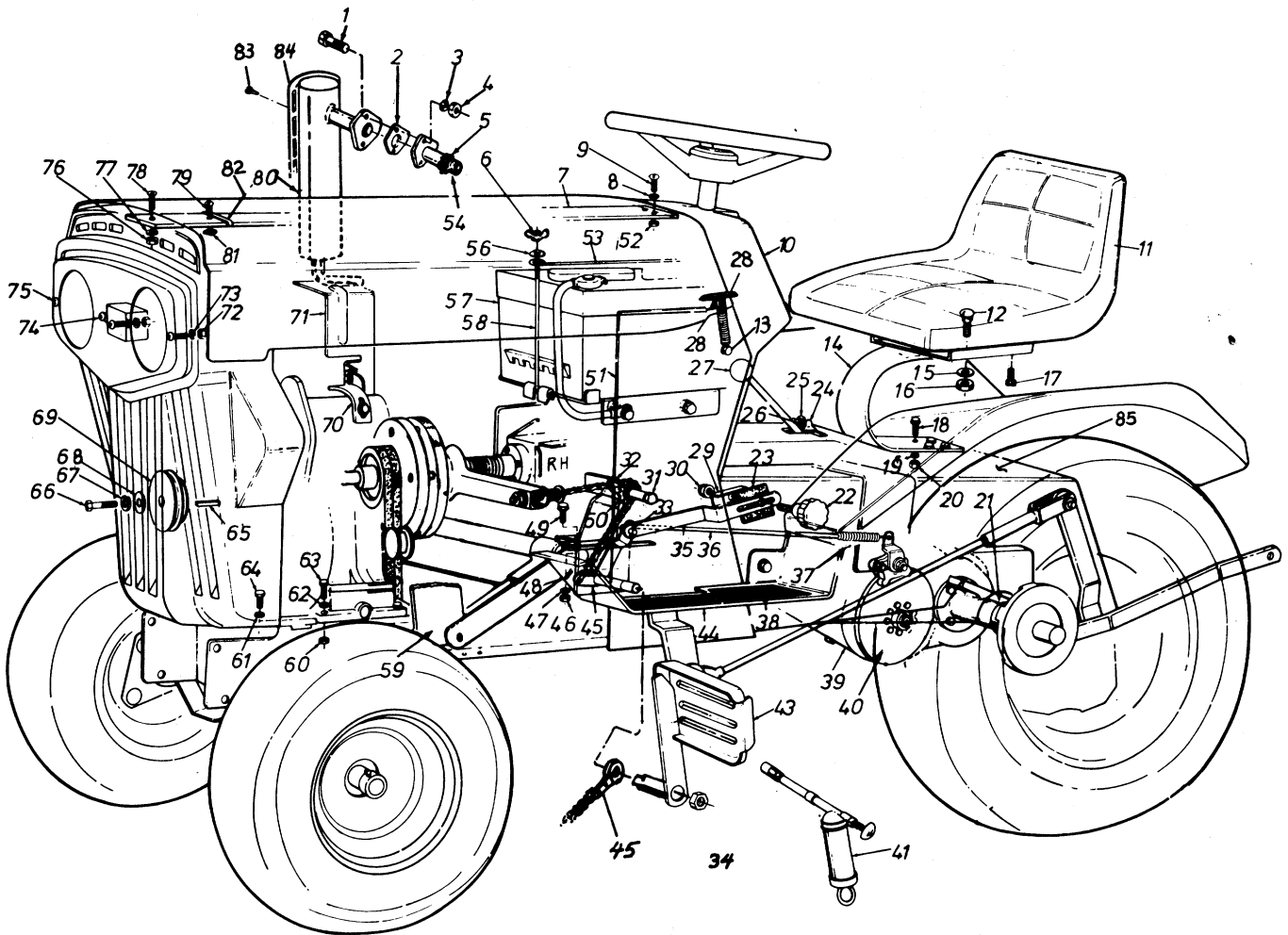
| REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---------|----------|------------|---|----------|---------|----------|------------|--|----------|
| 1 | 12290 | —459 | Hood | N | 51 | 710-216 | | Hex Hd. Cap Scr. 3/8-16 x .75" Lg. | |
| 2 | 723-182 | | Gas Tank With Strap | | 52 | 9403 | | Gear Box Mounting Plate Ass'y. | |
| 3 | 737-112 | | Rubber Grommet .50" I.D. | | 53 | 9479 | | Lift Bar | |
| 4 | 723-155 | | Gas Gauge | | 54 | 7387 | | Flat Washer | |
| 5 | 9531 | —459 | Heat Shield Ass'y. | | | | | .640 I.D. x 1-3/4" O.D. x 3/16" | |
| 6 | 710-211 | | Hex Sems Scr. 1/4-20 x .75" Lg.* | | 55 | 711-308 | | Clevis Pin .500" Dia. | |
| 7 | 710-472 | | Truss Hd. Mach. Scr. 1/4-20 x 1.25" Lg.* | | 56 | 714-117 | | Internal Cotter Pin 5/8" Dia. | |
| 8 | 736-329 | | Spring Lock Washer 1/4" Scr.* | | 57 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| 9 | 712-492 | | Square Nut 1/4-20 Thd.* | | 58 | 710-307 | | Leveler Scr. 3/8-16 x 1.50 Lg. | |
| 10 | 723-152 | | Gas Hose | | 59 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| | | | 1/4" I.D. x 1/2" O.D. x 1-1/2" Lg. | | 60 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| 11 | 710-211 | | Hex Sems Scr. 1/4-20 x .75" Lg. | | 61 | 9446 | | Idler Bracket Ass'y.—L.H. | |
| 12 | 9529 | | Mounting Bracket Ass'y. | | 62 | 711-306 | | Deck Idler | |
| 13 | 710-166 | | Truss Hd. Mach. Scr. 1/4-20 x 1.00" Lg.* | | 63 | 738-150 | | Shoulder Bolt | |
| | | | | | 64 | 10116 | | Idler Bracket—R.H. | |
| 14 | 725-222 | | Head Light | | 65 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| 15 | 9516 | —459 | Head Lamp Bezel | | 66 | 710-342 | | Hex Hd. Cap Scr. 3/8-16 x 1.25" Lg.* | |
| 16 | 9538 | | Hood Stop | | 67 | 9583 | | Drive Bet Idler Ass'y. Complete | |
| 17 | 728-123 | | Pop Rivet .188" Dia. x .402 | | 68 | 10385 | | Transaxle Mounting Bracket Ass'y. | |
| 18 | 11578 | | Angle Bracket | | 69 | 10923 | | Lift Pull Rod Ass'y. | |
| 19 | 712-287 | | Hex Nut 1/4-20 Thd.* | | 70 | 714-121 | | Cotter Pin 5/32" Dia. x 1.00" Lg.* | |
| 20 | 736-329 | | Spring Lock Washer 1/4" Scr.* | | 71 | 736-169 | | Spring Lockwasher 3/8" Scr. | |
| 21 | 723-154 | | Gas Filter | | 72 | 754-124 | | "V"-Belt A Sect 57.375" Lg. | |
| 22 | 9433 | | Index Bracket | | 73 | 710-351 | | Truss Hd. Mach. Scr. B-Tapp. #10 x .50" Lg. | |
| 23 | 736-169 | | Spring Lock Washer 3/8" Scr.* | | | | | Center Console Ass'y. | |
| 24 | 12177 | | Gas Tank and Battery Mounting Plate Ass'y. | N | 74 | 9580 | | Frame Side Plate—R.H. | N |
| 25 | 723-159 | | Gas Valve | | 75 | 12180 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.* | |
| 26 | 723-157 | | Hose Clamp—1/2" O.D. Hose | | 76 | 710-253 | | Clevis Pin .500" Dia. | |
| 27 | 723-178 | | Gas Hose | | 77 | 711-310 | | Internal Cotter Pin 5/8" Dia. | |
| | | | 1/4" I.D. x 1/2" O.D. x 8-1/2" Lg. | | 78 | 714-117 | | Set Scr. 5/16-18 x .50" Lg. | |
| 28 | 712-798 | | Hex Nut 3/8-16 Thd.* | | 79 | 710-356 | | Cup Point | |
| 29 | 717-229 | | Drive Plate and P.T.O. Pulley Ass'y. | | | | | Transaxle Drive Sheave | |
| 30 | 714-118 | | Square Key 1/4" x 1/4" x 1.50" Lg. | | 80 | 10593 | | #9 Hi-Pro-Key | |
| 31 | 10572 | | Right Angle Gear Box Sheave Assembly | | 81 | 714-126 | | 3/16 x 3/4" Dia. Hdn. | |
| 32 | 716-111 | | Snap Ring for .875" Dia. Shaft | | 82 | 710-336 | | Wheel Hub Bolt | |
| 33 | 711-793 | | P.T.O. Clutch Rod | | | | | 7/16-20 x 1.19" Lg. | |
| 34 | 10384 | | Frame Rail Ass'y.—L.H. | | 83 | 734-320 | | Rear Wheel Ass'y. Comp. 23.0 x 9.50 | |
| 35 | 9511 | | Plate Ass'y.—Front Frame | | | | | Rim Ass'y. Only—Rear Wheel | |
| 36 | 719-209 | | Grille | | | 734-279 | | Tire Only—Rear Wheel | |
| 37 | 710-356 | | Square Hd. Set Scr. 5/16-18 x .50" Lg. Cup Point | | | 734-322 | | 23.0 x 9.50 | |
| 38 | 734-525 | | Front Wheel Ass'y. Comp. 16.0 x 6.50 | | 84 | 716-101 | | Snap Ring for .750" Dia. Shaft | |
| | | | | | 85 | 736-180 | | Flat Washer | |
| | 9262 | | Front Wheel Rim Ass'y.—Only | | | | | .812 I.D. x 2.00 O.D. x .060 | |
| | 734-526 | | Tire Only 16.0 x 6.50— Front Wheel | | 86 | 9493 | —459 | Rear Fender | |
| 39 | 748-386 | | Collar 3/4" I.D. | | 87 | 10807 | | Seat Bracket | |
| 40 | 11319 | | Brake Shaft Ass'y. —17.37 Lg | | 88 | 710-258 | | Hex Hd. Cap Scr. 1/4-10 x .62" Lg.* | |
| 41 | 10714 | | Brake Pedal Ass'y. | | 89 | 710-216 | | Hex Hd. Cap Scr. 3/8-16 x .75" Lg.* | |
| 42 | 714-117 | | Internal Cotter Pin 5/8" Dia. | | 90 | 710-253 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.* | |
| 43 | 9402 | | Frame Rail Ass'y.—R.H. | | 91 | 728-111 | | Pop Rivet .125" Dia. x .358 | |
| 44 | 9457 | | Lift Pivot Bar Ass'y. | | 92 | 723-186 | | Hood Latch | |
| 45 | 11344 | | Idler Crank | | 93 | 710-473 | | Truss Hd. Mach. Scr. #10-24 x .50" Lg.* | |
| 46 | 711-310 | | Clevis Pin .500" Dia. | | 94 | 736-147 | | External Lockwasher #10 Scr.* | |
| 47 | 738-149 | | Shoulder Scr. 5/8" Dia. 3/8-16 Thd. | | 95 | 712-425 | | Square Nut #10-24 Thd.* | |
| 48 | 10450 | | Clutch Yoke Pivot Bracket Ass'y. | | 96 | 723-185 | | Steering Wheel | |
| 49 | 736-169 | | Spring Lock Washer 3/8" Scr. | | 97 | 715-118 | | Spring Pin Spirol | |
| 50 | 9582 | | Foot Pad Ass'y.—R.H. | | | | | 5/16" Dia. x 1.75" Lg.* | |

or faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

144-860A 144-960A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



LEFT HAND SIDE OF TRACTOR

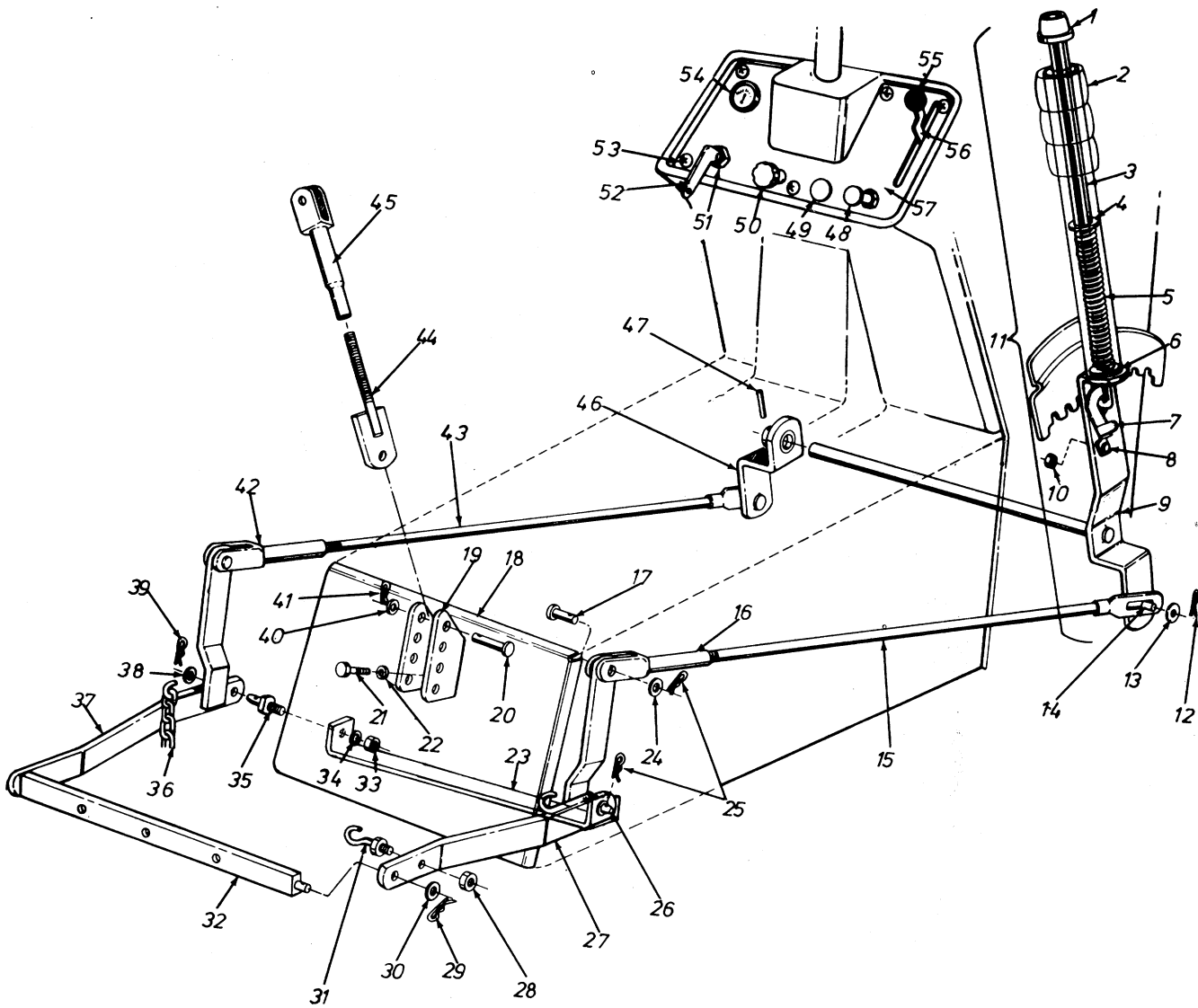
PARTS LIST FOR LEFT HAND VIEW 144-860A AND 144-960A

| REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---------|----------|------------|--|----------|---------|----------|------------|---|----------|
| 1 | 710-152 | | Hex Hd. Cap Scr. 3/8-24 x 1.00" Lg. Heat Treated | | 46 | 712-267 | | Hex Nut 5/16-18 Thd.* | |
| 2 | 721-127 | | Gasket | | 47 | 736-119 | | Spring Lock Washer 5/16" Scr.* | |
| 3 | 736-169 | | Spring Lock Washer 3/8" Scr.* | | 48 | 714-121 | | Cotter Pin 5/32" Dia. x 1.00" Lg.* | |
| 4 | 712-241 | | Hex Nut 3/8-24 Thd.* | | 49 | 710-198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | |
| 5 | 712-250 | | Conduit Lock Nut—Heavy Duty | | 50 | 723-168 | | Sprocket Idler 10 Teeth | |
| 6 | 712-109 | | Wing Lock Nut 1/4-20 Thd. | | 51 | 12179 | | Frame Side Plate—L.H. | N |
| 7 | 9576 | | Grille Brace | | 52 | 712-287 | | Hex Nut 1/4-20 Thd.* | |
| 8 | 736-329 | | Spring Lock Washer 1/4" Scr. | | 53 | 711-278 | | Battery Hold Down Rod | |
| 9 | 710-166 | | Truss Hd. Mach. Scr. 1/4-20 x 1.00" Lg. | | 54 | 11737 | | Pipe Ass'y.—Inlet Flange | |
| 10 | 9584 | | Instrument Panel | | 56 | 736-264 | | Flat Washer .344 I.D. x .62 O.D. x .063 | |
| 11 | 757-203 | | Seat | | 57 | 725-130 | | 12 Volt Battery | |
| 12 | 710-360 | | Carriage Bolt 1/2-13 x 1.75" Lg. | | 58 | 711-284 | | Battery Hold Down Studs | |
| 13 | 710-258 | | Hex Scr. 1/4-20 x .62" Lg.* | | 59 | 10482 | | Clutch Guard | |
| 14 | 723-181 | | Seat Spring | | 60 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| 15 | 736-921 | | Spring Lock Washer 1/2" Scr.* | | 61 | 736-169 | | Spring Lock Washer 3/8" Scr.* | |
| 16 | 712-206 | | Hex Nut 1/2-13 Thd.* | | 62 | 736-169 | | Spring Lock Washer 3/8" Scr.* | |
| 17 | 710-216 | | Hex Hd. Cap Scr. 3/8-16 x .75" Lg.* | | 63 | 710-344 | | Hex Hd. Cap Scr. 3/8-16 x 1.50" Lg.* | |
| 18 | 710-198 | | Hex Sems Scr. 5/16-18 x .75" Lg.* | | 64 | 710-253 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.* | |
| 19 | 736-119 | | Spring Lock Washer 5/16" Scr.* | | 65 | 714-119 | | Square Key 1/4" x 1/4" x .75" Lg. | |
| 20 | 712-267 | | Hex Nut 5/16-18 Thd.* | | 66 | 710-348 | | Hex Hd. Cap Scr. 7/16-20 x .75" Lg.* | |
| 21 | 710-427 | | Hex Hd. Cap Scr. 3/8-16 x 2.00" Lg.* | | 67 | 736-171 | | Spring Lock Washer 7/16" Scr.* | |
| 22 | 722-117 | | Parking Brake Knob | | 68 | 736-133 | | Flat Washer .406 I.D. x 1.25 O.D. x .100 | |
| 23 | 723-183 | | Serrated Plate | | 69 | 10576 | | Front Sheave | |
| 24 | 9480 | | Second Gear—Stop Clip | | 70 | 9527 | | Generator Pivot Bracket | |
| 25 | 710-106 | | Hex Hd. Cap Scr. 1/4-20 x 1-1/4" Lg.* | | 71 | 9526 | | Generator Bracket | |
| 26 | 732-145 | | Compression Spring | | 72 | 712-287 | | Hex Nut, 1/4-20 Thd.* | |
| 27 | 720-165 | | Gear Shift Knob | | 73 | 736-329 | | Spring Lock Washer 1/4" Scr.* | |
| 28 | 723-296 | | Hood Latch Ass'y. | | 74 | 710-350 | | Flo Counter-Sunk Mach. Scr. 1/4-20 x 1.00" Lg. | |
| 29 | 9443 | | Parking Brake Lock Ass'y. | | 75 | 710-346 | | Oval Counter-Sunk Mach. Scr. 1/4-20 x 1.50" Lg. | |
| 30 | 712-130 | | Hex Inserted Lock Nut 3/8-16 Thd. | | 76 | 712-287 | | Hex Nut 1/4-20 Thd.* | |
| 31 | 710-316 | | Hex Hd. Cap Scr. 3/8-16 x 3.50" Lg.* | | 77 | 736-329 | | Spring Lock Washer 1/4" Scr.* | |
| 32 | 9417 | | Clutch Sprocket Support Bracket | | 78 | 710-350 | | Flo Counter-Sunk Mach. Scr. 1/4-20 x 1.00" Lg. | |
| 34 | 712-200 | | Hex Inserted Lock Nut 1/2-20 Thd. | | 79 | 710-473 | | Truss Mach. Scr. #10-24 x .50" Lg. | |
| 35 | 11349 | | Parking Brake Link | | 80 | 11726 | | Muffler Ass'y. | |
| 36 | 747-111 | | Brake Rod .25" Dia. x 12.62" Lg. | | 81 | 712-425 | | Square Nut #10-24 Thd.* | |
| 37 | 732-245 | | Brake Spring | | 82 | 725-157 | | Cable Tie Self Clinching | |
| 38 | 723-215 | | Foot Pad 3-1/4" x 17" Lg. | | 83 | 710-160 | | Hex Wash. Hd. AB-Tapp. Scr. #8 x .62" Lg. | |
| 39 | — | | Transaxle | | 84 | 751-165 | | Muffler Screen Ass'y. | N |
| 40 | 761-136 | | Brake Disc Ass'y. | | 85 | 12093 | | Rear Frame Ass'y. | N |
| 41 | 727-143 | | Grease Gun #5911 | | | | | | |
| 43 | 11321 | | Clutch Pedal Ass'y. | | | | | | |
| 44 | 9581 | | Foot Pad Ass'y. L.H. | | | | | | |
| 45 | 11318 | | Clutch Lever | | | | | | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

144-960A



LIFT ASSEMBLY AND THREE POINT HITCH

PARTS LIST FOR LIFT ASSEMBLY AND THREE-POINT HITCH 144-860A AND 144-960A

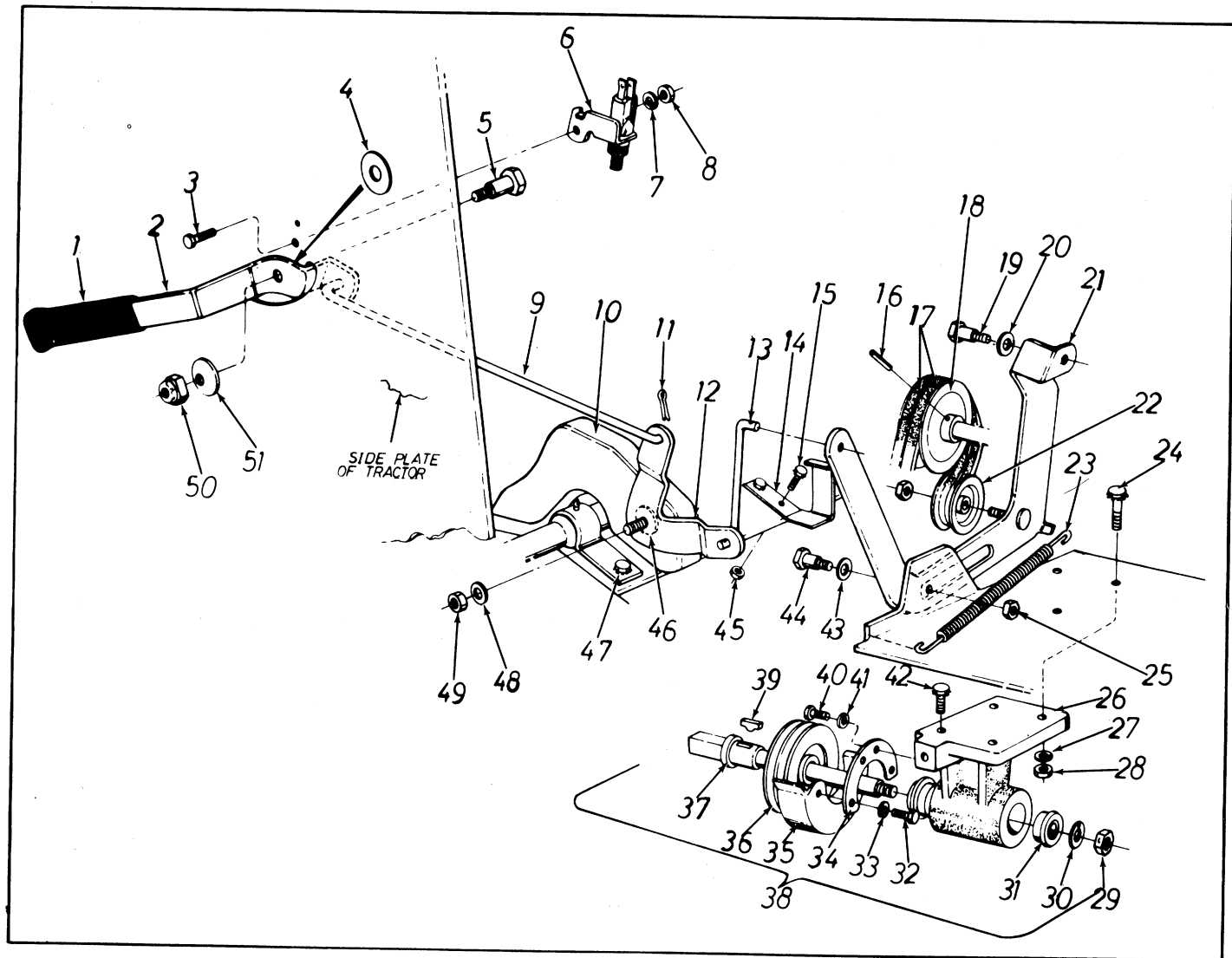
| REF J. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|-----------|-------------|---------------|--|-------------|------------|--------------------|---------------|--|-------------|
| 1 | 726-110 | | Push Cap .375 Rod (Black) | | 30 | 7387 | | Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16 | |
| 2 | 8818 | | Grip 1.00" I.D. | | 31 | 711-513 | | Hitch Chain Hook | |
| 3 | 9470 | | Lift Handle Spacer Tube | | 32 | 10996 | | Draw Bar Assembly | |
| 4 | 736-185 | | Flat Washer .406 I.D. x .74 O.D. x .063 | | 33 | 712-923 | | Hex Center Lock Nut 5/8-18 Thd. | |
| 5 | 732-156 | | Compression Spring | | 34 | 736-158 | | Spring Lock Washer 5/8" Scr. * | |
| 6 | 736-185 | | Flat Washer .406 I.D. x .74 O.D. x .063 | | 35 | 711-497 | | Link Clevis Pin | |
| 7 | 9448 | | Lift Handle Rod Lockout | | 36 | 713-148 | | Chain 3/16" Dia. x 20 Links | |
| 8 | 710-252 | | Hex Hd. Cap Scr. 1/4-20 x .75" Lg. * | | 37 | 10985 | | Draft Bar Ass'y.—L.H. | |
| 9 | 11750 | | Lift Handle Sub Assembly | | 38 | 7387 | | Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16 | |
| 10 | 712-107 | | Hex Center Lock Nut 1/4-20 Thd. | | 39 | 714-117 | | Internal Cotter-Pin 5/8" Dia. | |
| 11 | 11749 | | Lift Handle Assembly-Complete | | 40 | 7387 | | Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16 | |
| 12 | 714-117 | | Internal Cotter-Pin 5/8" Dia. | | 41 | 714-117 | | Internal Cotter-Pin 5/8" Dia. | |
| 13 | 7387 | | Flat Washer .640 I.D. 1-3/4" O.D. x 3/16 | | 42 | 10991 | | Adjustment Clevis Assembly | |
| 14 | 711-309 | | Clevis Pin .62" Dia. | | 43 | 10923 | | Lift Pull Rod Assembly | |
| 15 | 10923 | | Lift Pull Rod Ass'y. | | 44 | 10994 | | Clevis Screw Assembly | |
| 16 | 10991 | | Adjustment Clevis Ass'y. | | 45 | 10991 | | Adjustment Clevis Assembly | |
| 17 | 711-225 | | Clevis Pin .624" Dia. | | 46 | 11323 | | Lift Arm Assembly <i>see pin</i> | |
| 18 | 9406 | | Rear Frame Plate Ass'y. | | 47 | 710-356 | | Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point) | |
| 19 | 10993 | | Upper Hitch Bracket | | 48 | 746-129 | | Choke Control Complete | |
| 20 | 711-174 | | Clevis Pin .624" Dia. | | 49 | 726-119 | | Plug Button | |
| 21 | 710-253 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg. * | | 50 | 725-202 | | Head Light Switch | |
| 22 | 736-217 | | Spring Lock Washer 3/8" Scr. Heavy Duty | | 51 | 725-267 | | Ignition Switch | |
| 23 | 11316 | | Rear Frame Support | | 52 | 725-128 | | Ignition Key | |
| 24 | 7387 | | Washer .640 I.D. x 1-3/4" O.D. x 3/16 | | 53 | 710-351 | | Truss Hd. Mach. Scr. B-Tapp. #10 x .50" Lg. | |
| 25 | 714-117 | | Internal Cotter-Pin 5/8" Dia. | | 54 | 725-119 | | Ammeter | |
| 26 | 711-497 | | Link Clevis Pin | | 55 | 722-118 | | Throttle Control Knob | |
| 27 | 10986 | | Draft Bar Ass'y.—R.H. | | 56 | 746-130 | | Throttle Control | |
| 28 | 712-342 | | Hex Jam Nut 3/8-16 Thd. | | 57 | 9528 | | Instrument Panel-Bezel | |
| 29 | 714-117 | | Internal Cotter-Pin 5/8" Dia. | | | | | | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

144-860A

144-960A



POWER TAKE OFF

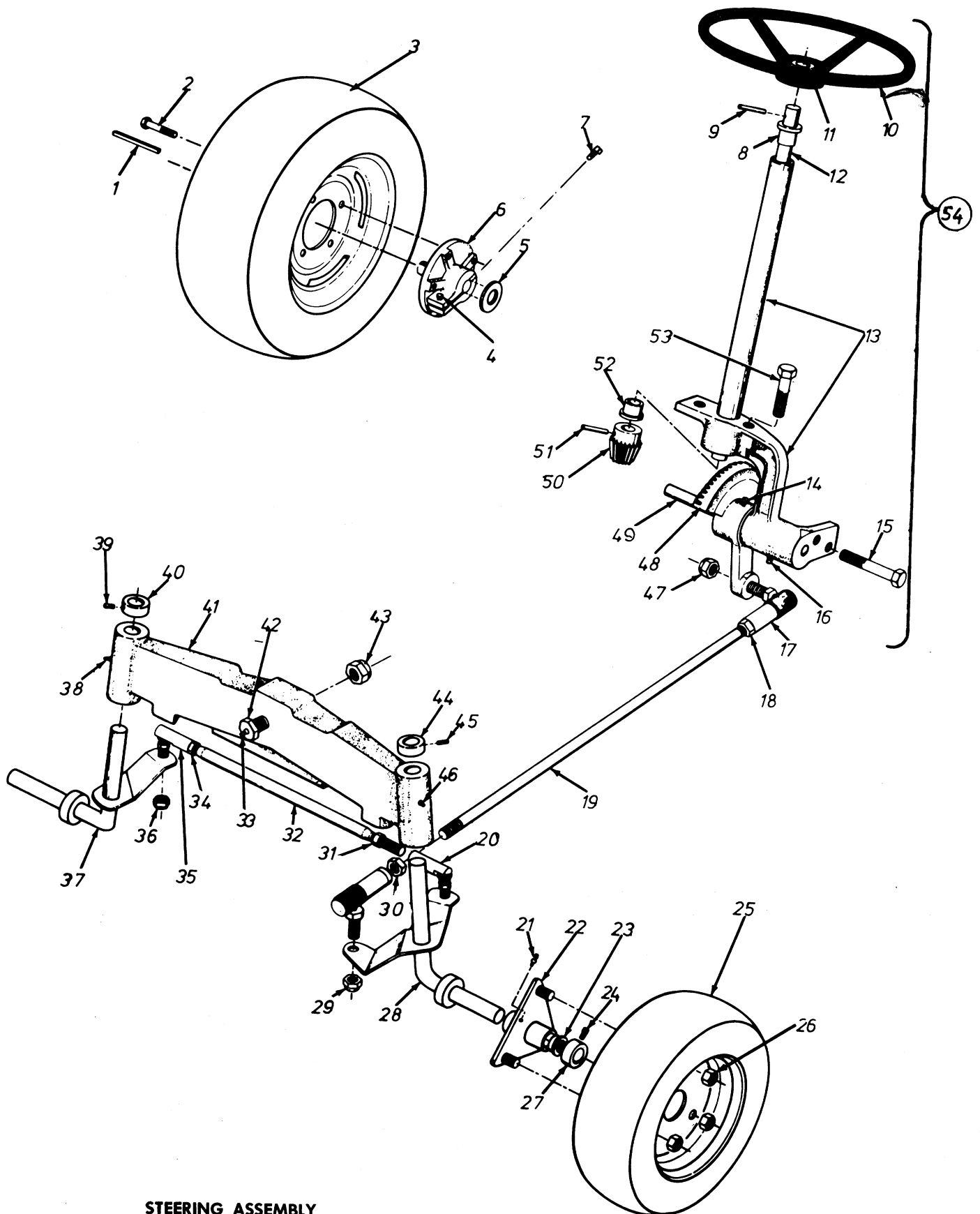
PARTS LIT FOR POWER TAKE OFF MODELS 144-860A AND 144-960A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|--|----------|
| 1 | 720-143 | | Grip | N | 27 | 736-169 | | L-Wash. 3/8" Scr.* | |
| 2 | 12197 | | P.T.O. Handle | | 28 | 712-798 | | Hex Nut 3/8-16 Thd.* | |
| 3 | 710-136 | | Hex Scr. 1/4-20 x 1.75" Lg.* | | 29 | 712-221 | | Hex Ins. L-Nut 5/8-18 Thd. | |
| 4 | 736-167 | | Fl.-Wash. .656 I.D. x 1.25" O.D. | | 30 | 736-158 | | L-Wash. 5/8" Scr.* | |
| 5 | 738-149 | | Shldr. Scr. .625" Dia. x .425 | | 31 | 741-161 | | Ball Brg. .787 I.D. x 1.85 O.D. | |
| 6 | 725-268 | | Safety Switch | | 32 | 710-289 | | Hex Scr. 1/4-20 x .50" Lg.* | |
| 7 | 736-329 | | L.-Wash. 1/4" Scr.* | | 33 | 736-329 | | L-Wash. 1/4" Scr.* | |
| 8 | 712-287 | | Hex Nut 1/4-20 Thd.* | | 34 | 11327 | | Belt Guard Mtg. Brkt. | |
| 9 | 747-137 | | P.T.O. Rod | | 35 | 11328 | | Belt Guard Ass'y. | |
| 10 | 11322 | | Clutch Pivot Brkt. Ass'y. | | 36 | 756-177 | | P.T.O. Pulley | |
| 11 | 714-507 | | Cotter Pin 3/32" Dia.x.75" Lg. | | 37 | 738-156 | | P.T.O. Shaft | |
| 12 | 11344 | | Idler Crank | | 38 | 717-218 | | P.T.O. Ass'y.—Comp. | |
| 13 | 11570 | | P.T.O. Clutch Rod | | 39 | 714-113 | | #A Hi-Pro-Key 1/4 x .78" Dia. | |
| 14 | 9476 | | Belt Trapout Brkt. | | 40 | 710-289 | | Hex Scr. 1/4-20 x .50" Lg.* | |
| 15 | 710-211 | | Hex Sems Scr. 1/4-20 x .75" Lg.* | | 41 | 736-329 | | L-Wash. 1/4" Scr.* | |
| 16 | 715-114 | | Sprg Pin Spir. 1/4" Dia.x1.50" | | 42 | 710-937 | | Hex Scr. 3/8-16 x 2.50" Lg.* | |
| 17 | 754-165 | | V-Belt : 1/2 x 34" Lg. (Matched Set) | | 43 | 736-179 | | Fl.-Wash. .531 I.D. x 1.25 O.D. | |
| 18 | 756-176 | | P.T.O. Engine Pulley | | 44 | 738-143 | | Shldr Scr. .498" Dia. x .340 | |
| 19 | 738-163 | | Shldr. Scr. .625 Dia. x .261 | | 45 | 712-107 | | Hex Center L-Nut 1/4-20 Thd. | |
| 20 | 736-116 | | Fl.-Wash. .635 I.D. x .93 O.D. | | 46 | 736-116 | | Fl.-Wash. .635 I.D. x .930 O.D. | |
| 21 | 11434 | | P.T.O. Clutch Idler Brkt. Ass'y. | | 47 | 710-198 | | Hex Sems Scr. 5/16-18 x .75"* | |
| 22 | 756-183 | | Fl-Idler 3.62 O.D. | | 48 | 736-300 | | Fl.-Wash. .385 I.D. x .87 O.D. | |
| 23 | 732-199 | | Extension Spring | | 49 | 712-130 | | Hex Ins. L-Nut 3/8-16 Thd.* | |
| 24 | 710-344 | | Hex Scr. 3/8-16 x 1.50" Lg.* | | 50 | 712-130 | | Hex Ins. L-Nut 3/8-16 Thd.* | |
| 25 | 712-375 | | Hex Center L-Nut 3/8-16 Thd. | | 51 | 736-219 | | Belleville Wash. .400 I.D. x 1.13 O.D. | |
| 26 | 717-219 | | P.T.O. Housing | | | | | | |

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(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

144-860 A

144-960 A



STEERING ASSEMBLY

PARTS LIST FOR STEERING ASSEMBLY 144-860A AND 144-960A

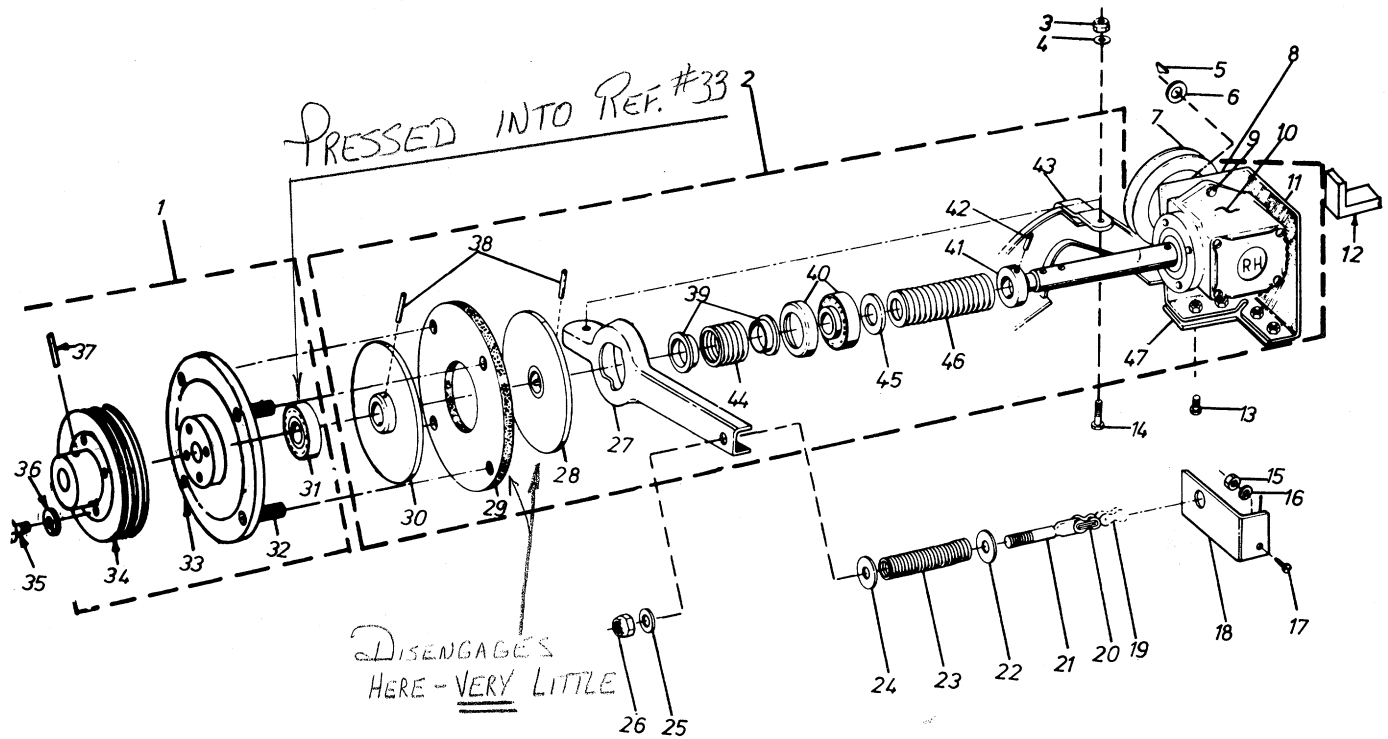
| REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---------|----------|------------|---|----------|---------|----------|------------|--|----------|
| 1 | 714-120 | | Square Key 1/4" x 1/4" x 30" Lg.* | | | 9262 | | Front Wheel Rim Ass'y. Only | |
| 2 | 710-336 | | Wheel Lug Bolts 7/8-20 x 1.19" Lg. (5 Req'd. Ea. Wheel) | | | 734-526 | | Tire Only 16.0 x 6.50—Front Wheel | |
| 3 | 734-320 | | Rear Wheel Ass'y. Comp. 23.0 x 9.50 | | 26 | 712-193 | | Cone Nut 3/8-24 Thd. | |
| | 734-279 | | Rim Ass'y. Only—Rear Wheel | | 27 | 748-386 | | Collar 3/4" I.D. (Axle) | |
| | 734-322 | | Tire Only—Rear Wheel 23.0 x 9.50 | | 28 | 9423 | | Axle Ass'y.—Front Wheel—L.H. | |
| 4 | 710-342 | | Hex Hd. Cap Scr. 3/8-16 x 1.25" Lg.* | | 29 | 712-200 | | Hex Inserted Lock Nut 1/2-20 Thd. | |
| 5 | 736-163 | | Flat Washer 1.03 I.D. x 1.62 O.D. x .03 Hardened | | 30 | 712-922 | | Hex Jam Nut 1/2-20 Thd. | |
| 6 | 10577 | | Hub Assembly—Rear Wheel | | 31 | 712-711 | | Hex Jam Nut 3/8-24 Thd. | |
| 7 | 710-531 | | Square Hd. Set Scr. 3/8-16 x .75" Lg. | | 32 | 711-454 | | Tie Rod (Threaded Both Ends) | |
| 8 | 748-157 | | Flanged Bushing—Steering Tube | | 33 | 737-479 | | Grease Fitting | |
| 9 | 715-101 | | Spring Pin Spirol 1/4" Dia. x 1.50" Lg.* | | 34 | 712-711 | | Hex Jam Nut 3/8-24 Thd. | |
| 10 | 723-185 | | Steering Wheel | | 35 | 723-156 | | Ball Joint Ass'y. 3/8-24 Thd. (Tie Rod End) | |
| 11 | 723-188 | | Steering Wheel Cap | | 36 | 712-116 | | Hex Inserted Lock Nut 3/8-24 Thd. | |
| 12 | 9535 | | Steering Rod | | 37 | 9422 | | Axle Ass'y.—Front Wheel—R.H. | |
| 13 | 9517 | | Steering Tube and Seg. Support Ass'y. + | | 38 | 737-108 | | Grease Fitting | |
| 14 | 710-349 | | Square Hd. Set Scr. 5/16-18 x .75" Lg.* | | 39 | 710-356 | | Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point) | |
| | 710-253 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.* | | 40 | 748-386 | | Collar 3/4" I.D. (Axle Ass'y.) | |
| 16 | 737-479 | | Grease Fitting | | 41 | 10587 | | Front Axle Support | |
| 17 | 723-179 | | Drag Link Joint Assembly | | 42 | 710-335 | | Pivot Bolt 3/4-10 x 4.00 (Special) | |
| 18 | 712-922 | | Hex Jam Nut 1/2-20 Thd. | | 43 | 712-205 | | Hex Inserted Lock Nut 3/4-10 Thd. | |
| 19 | 711-455 | | Drag Link | | 44 | 748-386 | | Collar 3/4" I.D. (Axle Ass'y.) | |
| 20 | 723-156 | | Ball Joint Ass'y. 3/8-24 Thd. (Tie Rod End) | | 45 | 710-356 | | Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point) | |
| 21 | 737-108 | | Grease Fitting | | 46 | 737-108 | | Grease Fitting | |
| 22 | 10457 | | Hub Ass'y.—Front Wheel (Includes Bearings & Grease Fitting). | | 47 | 712-200 | | Hex Inserted Lock Nut 1/2-20 Thd. | |
| 23 | 741-141 | | Ball Bearing | | 48 | 10573 | | Gear Segment | |
| 24 | 710-356 | | Sq. Hd. Set Scr. 5/16-18 x .50" Lg. Cup Point | | 49 | 9563 | | Segment Shaft | |
| 25 | 734-525 | | Front Wheel Ass'y. Comp. 16.0 x 6.50 | | 50 | 717-269 | | Pinion Gear | |
| | | | | | 51 | 715-101 | | Spring Pin Spirol 1/4" Dia. x 1.50" Lg. | |
| | | | | | 52 | 748-157 | | Flanged Bearing—Steering Tube | |
| | | | | | 53 | 710-216 | | Hex Hd. Cap Scr. 3/8-16 x .75" Lg. | |
| | | | | | 54 | 11264 | | Steering Ass'y. Complete | |

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(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

+ 719-135

144-860A 10HP

144-960A 16HP



CLUTCH ASSEMBLY

PARTS LIST FOR CLUTCH ASSEMBLY 144-860A AND 144-960A

| REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|------------|-------------|---------------|--|-------------|------------|-------------|---------------|--|-------------|
| 1 | 717-229 | | Drive Plate and P.T.O. Pulley Ass'y. | | 25 | 736-300 | | Flat Washer .385 I.D. x .87 O.D. x .060 | |
| 2 | 717-228 | | Clutch Ass'y. | | 26 | 712-130 | | Hex Inserted Lock Nut 3/8-16 Thd. | |
| 3 | 712-130 | | Hex Inserted Lock Nut 3/8-16 Thd. | | 27 | 11350 | | Clutch Yoke Assembly | |
| 4 | 736-300 | | Flat Washer .385 I.D. x .87 O.D. x .060 | | 28 | 10444 | | Disc Assembly—Clutch | |
| 5 | 714-126 | | #9 Hi-Pro-Key 3/4" x 3/4" Dia. Hon. | | 29 | 717-160 | | Drive Disc. | |
| 6 | 736-181 | | Flat Washer .938 I.D. x 1.47 O.D. x .100 | | 30 | 10443 | | Disc Assembly—Clutch | |
| 7 | 10572 | | Sheave Ass'y.—For Right Angle Gear Box | | 31 | 741-140 | | Ball Bearing .750 Bore 1.625 O.D. | |
| 8 | 9591 | | Gear Box Mounting Plate | | 32 | 711-459 | | Replacement Stud | |
| 9 | 710-342 | | Hex Hd. Cap Scr. 3/8-16 x 1.25" Lg. | | | 712-195 | | Hex Nut for Replacement Stud. | |
| 10 | 717-161 | | Right Angle Gear Box | | 33 | 717-230 | | Drive Plate Sub Ass'y. | |
| 11 | 9410 | | Gear Box Mounting Bracket Ass'y. | | 34 | 756-176 | | P.T.O. Engine Pulley | |
| 12 | 10549 | | Brace Assembly | | 35 | 710-116 | | Hex Hd. Cap Scr. 5/16 x 2.00" Lg.* | |
| 13 | 710-253 | | Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.* | | 36 | 736-119 | | Spring Lock Washer 5/16" Scr.* | |
| 14 | 710-340 | | Socket Hd. Shoulder Scr. .50" Dia. x .75" Lg. | | 37 | 715-113 | | Spring Pin Spirol 5/16" Dia. x 2.50" Lg. | |
| 15 | 712-287 | | Hex Nut 1/4-20 Thd.* | | 38 | 715-121 | | Spring Pin Spirol 1/4" Dia. x 2.00" Lg. | |
| 16 | 736-329 | | Spring Lock Washer 1/4" Scr.* | | 39 | 711-447 | | Spring Guide | |
| 17 | 710-258 | | Hex Hd. Cap Scr. 1/4-20 x .62" Lg. | | 40 | 10477 | | Bearing Assembly | |
| 18 | 11317 | | Spring Retainer | | 41 | 711-444 | | Spring Collar | |
| 19 | 713-136 | | #48 Chain 1/2" Pitch x 19 Links | | 42 | 715-114 | | Spring Pin Spirol 1/4" Dia. x 1.50" Lg. | |
| 20 | 713-116 | | #48 Master Link 1/2" Pitch Type I | | 43 | 10450 | | Clutch Yoke Pivot Bracket Ass'y. | |
| 21 | 711-289 | | Clutch Adjusting Rod | | 44 | 732-204 | | Clutch Helper Spring | |
| 22 | 736-112 | | Belleville Washer .535 I.D. x 1.50 O.D. x .052 | | 45 | 736-214 | | Flat Washer .885 I.D. x 1.37 O.D. x .060 | |
| 23 | 732-207 | | Yoke Return Spring | | 46 | 732-205 | | Clutch Spring | |
| 24 | 736-112 | | Belleville Washer .535 I.D. x 1.50 O.D. x .052 | | 47 | 10551 | | Gear Box Mounting Washer | |

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(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

WHEEL CHART

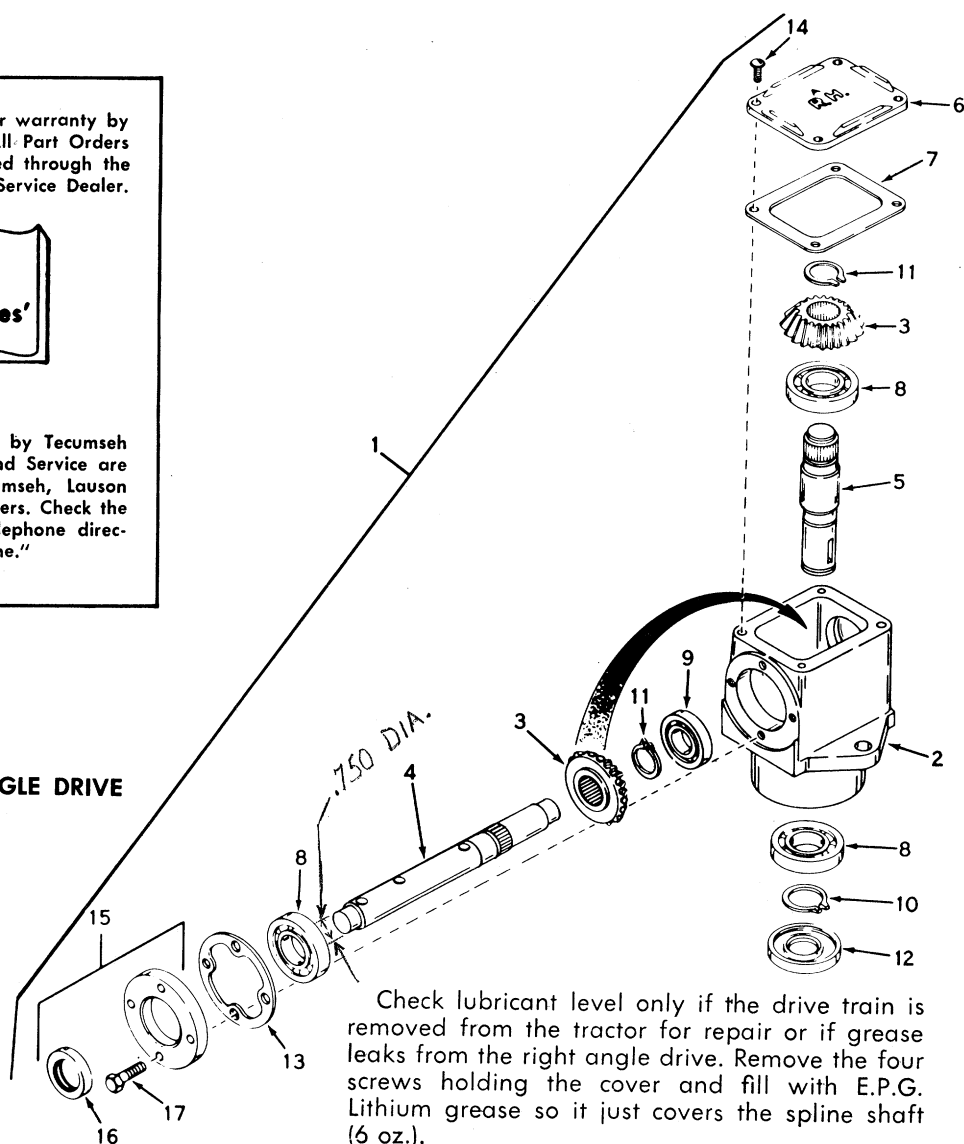
| FRONT WHEEL | | REAR WHEEL | |
|-------------|------------------------------|------------|------------------------------|
| Part No. | Description | Part No. | Description |
| 734-525 | Wheel Ass'y.—Comp. 16 x 6.50 | 734-320 | Wheel Ass'y.—Comp. 23 x 9.50 |
| 9262 | Rim Only | 734-279 | Rim Only |
| 734-526 | Tire Only 16 x 6.50 Tubeless | 734-322 | Tire Only 23 x 9.50 Tubeless |
| 741-141 | Bearing | — | Bearing (Part of Transaxle) |
| 10457 | Hub Ass'y. | 10577 | Hub Ass'y. |
| 734-255 | Air Valve | 734-255 | Air Valve |
| 734-253 | Inner Tube (Service Only) | 734-329 | Inner Tube (Service Only) |

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.



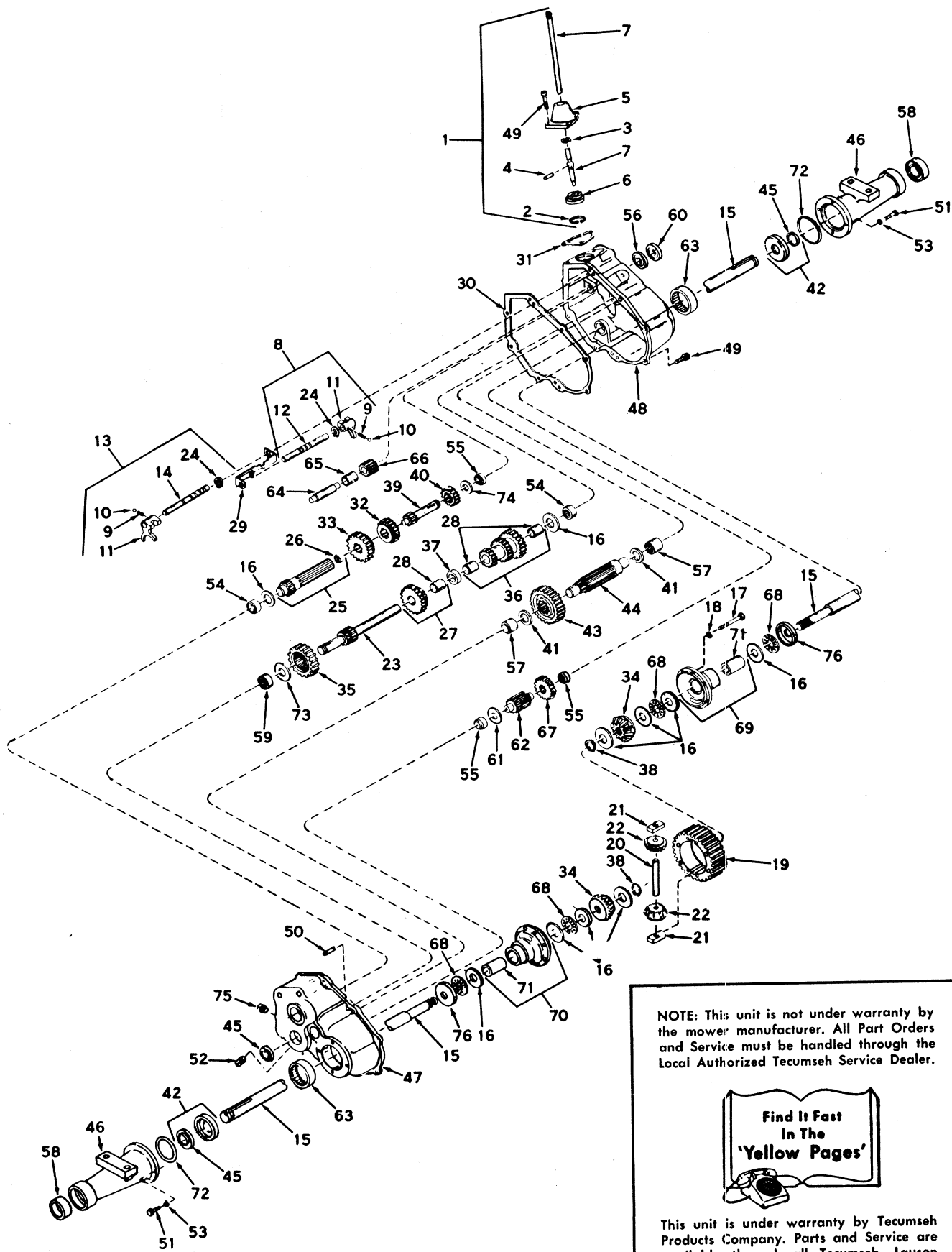
This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

RIGHT ANGLE DRIVE



RIGHT ANGLE DRIVE MODEL NO. (PEERLESS RA-208-P91)

| REF NO. | PART NUMBER | DESCRIPTION |
|---------|-------------|---|
| 1 | 794077 | Head Assy. Right hand (Incl. Nos. 2 thru 15) |
| 2 | 770026 | Housing, Right angle drive |
| 3 | 778046 | Gear, Miter |
| 4 | 776116 | Shaft, Input pinion |
| 5 | 776060A | Shaft, Output |
| 6 | 772034 | Cover, Right hand |
| 7 | 788028 | Gasket, Cover |
| 8 | 780034 | Bearing, Ball |
| 9 | 780024 | Bearing, Ball |
| 10 | 788019 | Ring, Snap |
| 11 | 788018 | Ring, Snap |
| 12 | 788029 | Seal, Oil |
| 13 | 788030 | Gasket, Cap |
| 14 | 792025 | Screw, Rd. hd. self tap, 10-24 x 1/2 |
| 15 | 786029 | Cap & Seal Assy., Retainer (Incl. Nos. 16 & 17) |
| 16 | 788031 | Seal, Oil |
| 17 | 792026 | Screw, Hex hd. 1/4-20 x 7/8 |



TRANSAXLE (PEERLESS 2315A)

| TRANSAXLE MODEL NO. (PEERLESS 2315-A) | | | | | |
|---------------------------------------|-------------|---|---------|-------------|--|
| Ref. No. | Part Number | DESCRIPTION | REF NO. | PART NUMBER | DESCRIPTION |
| 1 | 784151 | Lever & Housing Assy., Shift (Incl. Nos. 2 thru 7) | 39 | 776015A | Shaft, Input |
| 2 | 792016 | Ring, Snap | 40 | 778024 | Spur Gear, Input shaft |
| 3 | 792001 | Ring, Quad | 41 | 780052 | Washer, Thrust |
| 4 | 792002 | Pin, Roll | 42 | 788021 | Seal & Retainer Assy., Oil (Incl. No. 45) |
| 5 | 784093 | Housing, Shift lever | 43 | 778036 | Gear, Output |
| 6 | 784094 | Keeper, Shift lever | 44 | 776028 | Pinion, Output |
| 7 | 784152 | Lever, Shift | 45 | 788008 | Seal, Oil |
| 8 | 784054 | Rod Assy., Shift (Incl. Nos. 9 thru 12 & 24) | 46 | 782024 | Housing, Axle |
| 9 | 792003 | Spring | 47 | 772016A | Cover Assy., Transaxle (Incl. Nos. 54, 55, 57, 59 & 63) |
| 10 | 792004 | Ball, Steel | 48 | 770012 | Case Assy., Transaxle (Incl. Nos. 54, 55, 57 & 63) |
| 11 | 784004 | Fork, Shifter | 49 | 792007 | Screw, Socket hd. cap, 1/4-20 x 3/4 |
| 12 | 784055 | Rod, Shifter (3rd & 4th) | 50 | 786026 | Pin, Dowel |
| 13 | 784056 | Rod Assy., Shift (Incl. Nos. 9, 10, 11 & 14) | 51 | 792028 | Screw, Hex hd. 5/16-18 x 7/8 |
| 14 | 784057 | Rod, Shifter (low) | 52 | 792019 | Plug, Magnetic drain |
| 15 | 774124 | Axle | 53 | 792029 | Lockwasher, Split 5/16" |
| 16 | 780042 | Washer, Thrust | 54 | 780049 | Bearing, Needle |
| 17 | 792005 | Screw, Hex hd. cap, 1/4-20 x 2-1/2 | 55 | 780022 | Bearing, Needle |
| 18 | 792006 | Lockwasher, 1/4 | 56 | 780024 | Bearing, Ball |
| 19 | 778033A | Gear, Ring | 57 | 780047 | Bearing, Needle |
| 20 | 786019 | Pin, Drive | 58 | 780050 | Bearing, Ball |
| 21 | 786027 | Block, Drive | 59 | 780046 | Bearing, Needle |
| 22 | 778094 | Pinion, Bevel | 60 | 788025 | Seal, Oil |
| 23 | 776029A | Shaft & Gear, Brake | 61 | 780001 | Washer |
| 24 | 792017 | Ring, Snap | 62 | 776031 | Shaft & Pinion |
| 25 | 776026 | Shaft & Bearing Assy., Pinion (Incl. No. 26) | 63 | 780048 | Bearing, Needle |
| 26 | 780018 | Bearing | 64 | 776030 | Shaft, Reverse idler |
| 27 | 778034 | Gear Cluster Assy., (Incl. No. 28) | 65 | 786025 | Spacer, Reverse idler |
| 28 | 780053 | Bushing | 66 | 778016 | Idler, Reverse |
| 29 | 784074 | Stop, Shifter | 67 | 778038 | Spur gear (22 teeth) |
| 30 | 788023 | Gasket, Case & Cover | 68 | 780039 | Bearing, Thrust |
| 31 | 788022 | Gasket, Shift lever housing | 69 | 774072A | Carrier Assy., Differential (Incl. No. 71) |
| 32 | 778019 | Gear, Shifting (3rd & 4th) | 70 | 774071A | Carrier Assy., Differential (Incl. No. 71) |
| 33 | 778020 | Gear, Shifting (1st, 2nd & Rev.) | 71 | 780041 | Bushing |
| 34 | 778095 | Gear, Bevel | 72 | 788024 | "O" Ring |
| 35 | 778037 | Gear, Idler | 73 | 780007 | Washer, Thrust |
| 36 | 778035 | Gear Cluster Assy., (Incl. No. 28) | 74 | 780051 | Washer, Thrust |
| 37 | 786024 | Spacer | 75 | 792010 | Plug, Pipe |
| 38 | 792018 | Ring, Snap | 76 | 780075 | Race, Thrust |

BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months deter-

mined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

BATTERY MANUFACTURER MEMBERSHIP LIST

ALABAMA

Birmingham
Southern Bty.
Yocam Batteries
Mobile
Yocam Batteries
Montgomery
Ebco Battery

ALASKA

Anchorage
Alaska Husky Bty.

ARKANSAS

Hot Springs
Red Diamond Bty.

CALIFORNIA

Los Angeles
Estee Battery
Laher Bty. Prod.

Oakland
Laher Bty. Prod.

Sacramento
Laher Bty. Prod.

San Francisco
Amp King Bty.
Laher Bty. Prod.
Pico Bty. Mfg.

Stockton
Stockton Battery

COLORADO

Denver
Moore Battery

D. C.

Washington
Express Bty. Div.
Leeth Brothers

FLORIDA

Fort Lauderdale
Florida Bty.

Hialeah
East Penn Mfg.

Jacksonville
Tropex Batteries
Yocam Batteries

Orlando
Yocam Batteries

Miami

Tropex Batteries
Yocam Batteries

Pensacola
Yocam Batteries

St. Petersburg
Electro Battery Co.

Tampa
Bilt-Rite Bty. Mfg.
Contract Bty. Mfg.
DeSoto Bty. & Elec.
Tropex Batteries
Yocam Batteries

GEORGIA

Albany
Ebco Battery

Atlanta
Ebco Battery
Southern Bty.
Yocam Batteries

Columbus
Ebco Battery
Contract Bty. Mfg.
Yocam Batteries

ILLINOIS

Belleville
Bell City Bty. Mfg.

Chicago
Illinois Bty. Mfg.
Universal Bty.
Volta Bty. Corp.

Peoria
Red Diamond Bty.

INDIANA

Muncie
Stout Storage Bty.

IOWA

Corydon
Voltmaster

Council Bluffs
Reliance Bty. Prod.

Des Moines
Voltmaster

KANSAS

Kansas City
American Batteries
Contract Bty. Mfg.

KENTUCKY

Whitesburg
Electro-Lite Bty.

LOUISIANA

New Orleans
Central Bty.
Reliable Bty.
Shreveport
Central Bty.

MARYLAND

Baltimore
East Penn Mfg.

MASSACHUSETTS

Watertown
Atlantic Bty.

MICHIGAN

Detroit
Batteries Mfg.

Flint
ABC Batteries

Holly
Detroit Battery

Madison Heights
C & W Lektra

Warren
G & M Battery

MINNESOTA

St. Paul
Standard Storage Bty.

MISSISSIPPI

Florence
Contract Bty. Mfg.

Jackson
Central Bty.

MISSOURI

JOPLIN
Lead Products
Maryland Heights
Electro Bty. Mfg.
Sikeston
Electro Bty.

NEW JERSEY

Atlantic City
Landis Battery

NEW MEXICO

Albuquerque
Sandia Bty. Mfg.

NEW YORK

Buffalo
East Penn Mfg.
Lockport
Great Lakes Battery

NORTH CAROLINA

Charlotte
Yocam Batteries
Thomasville
East Penn Mfg.

OHIO

Akron
Crown Battery

Cincinnati
Moore Battery

Cleveland
Crown Battery
New Castle Bty.

Columbus
Crown Battery

Fremont
Crown Battery

OREGON

Beaverton
Western Bty., Inc.

Portland
Laher Bty. Prod.

PENNSYLVANIA

Altoona
East Penn Mfg.

Erie
New Castle Bty.

Lancaster
Lancaster Bty.

Lyon Station
East Penn Mfg.

New Castle
New Castle Bty.

Philadelphia
East Penn Mfg.

Pittsburgh
Simon Bty. & Res.
Geidel Bty. Div.

RHODE ISLAND

Providence
Pilot Mfg., Inc.

SOUTH CAROLINA

Columbia
Yocam Batteries

TENNESSEE

Chattanooga
Electro-Lite Bty.

Knoxville
Southern Bty.

Memphis
Central Battery
Laher Bty. Prod.
Southern Bty.

Nashville
Electro-Lite Bty.
Southern Bty.

TEXAS

Dallas
Continental Bty.
Reliable Battery

El Paso
El Paso Bty.

Houston
Texford Bty. Co.
Reliable Battery

San Antonio
Reliable Battery

UTAH

Salt Lake City
Laher Bty. Prod.

VIRGINIA

Arlington
Express Bty. Div.
Leeth Bros.

Lynchburg
Hydrate Battery

WASHINGTON

Seattle
Laher Bty. Prod.

Spokane
Laher Bty. Prod.

CANADA

Vancouver, B. C.
Industrial Bty. &
Supply

PARTS INFORMATION

DEFECTIVE OR MISSING PARTS must be reported to the factory immediately. Such claims must include your model number and date of purchase.

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2525 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.
1325 E. Madison Street
Seattle Washington 98102

Bleckie, Inc.
7900 Lorain Avenue
Cleveland, Ohio 44102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Carl A. Anderson Co.
623 S. 16th Street
Omaha, Nebraska 68102

Catto & Putty, Inc.
P. O. Box 2408
510 Soledad Street
San Antonio, Texas 78205

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Gardenville Supply, Inc.
Pipersville, Pennsylvania 18947

Henry W. O'Neil & Assoc., Inc.
410 North Goodman Street
Rochester, New York 14609

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
115 W. Geddes St.
Syracuse, New York 13204

The Lawnmower Shop
1340 El Camino Real
San Carlos, California 94070

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis Tennessee 38103

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Mox-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

National Central, Div. of
Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Parts & Sales Inc.
2101 Industrial Pkwy.
Elkhart, Indiana 46514

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Richmond Battery & Ignition
P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

Woodson Sales & Service
1702 North Sylvania
Ft. Worth, Texas 76111

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.